UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Al-hadid, S. A., Ali, M. B. W., & Ali, M. R. A. (2018). *Bctt-10-207.Pdf*. 207–217.

Alamsyah, F., Fadhlurrahman, A. G., Pello, J. I., Firdausi, N., Evi, S., Karima, F. N., Pratiwi, R., Fitria, L., Nurhidayat, L., & Taruno, W. P. (2018). PO-111 Non-contact electric fields inhibit the growth of breast cancer cells in animal models and induce local immune reaction. *ESMO Open*, *3*, A269. https://doi.org/10.1136/esmoopen-2018-eacr25.636

Alamsyah, Firman, Niswah Ajrina, I., Nur, F., Dewi, A., Iskandriati, D., Prabandari, S. A., & Taruno, W. P. (2015). Antiproliferative Effect of Electric Fields on Breast Tumor Cells In Vitro and In Vivo. *Indonesian Journal of Cancer Chemoprevention*, *6*(3), 71–77. https://www.ijcc.chemoprev.org/index.php/ijcc/article/view/88

Alamsyah, Firman, Pratiwi, R., Firdausi, N., Mesak Pello, J. I., Evi, S., Nugraheni, D., Fadhlurrahman, A. G., Nurhidayat, L., Taruno, W. P., & Keserci, B. (2021). *Cytotoxic T cells response with decreased CD4/CD8 ratio during mammary tumors inhibition in rats induced by non-contact electric fields [version 1; peer review: 1 approved, 1 approved with reservations] report report*. https://doi.org/10.12688/f1000research.27952.1

Andiani, L., Al Huda, M., & Purwo Taruno, W. (2017). *ISSN: 2279-7165-Available on-line at www.embj.org EUROMEDITERRANEAN BIOMEDICAL JOURNAL*. *12*(38), 178–183. https://doi.org/10.3269/1970-5492.2017.12.38

Aubrey, B. J., Kelly, G. L., Janic, A., Herold, M. J., & Strasser, A. (2017). How does p53 induce apoptosis and how does this relate to p53-mediated tumour suppression? *Nature Publishing Group*, *25*, 104–113. https://doi.org/10.1038/cdd.2017.169

Awasthi, K., Chang, F. L., Hsieh, P. Y., Hsu, H. Y., & Ohta, N. (2020). Characterization of endogenous fluorescence in nonsmall lung cancerous cells: A comparison with nonmalignant lung normal cells. *Journal of Biophotonics*, *13*(5), e201960210. https://doi.org/10.1002/JBIO.201960210

Awasthi, K., Chang, F. L., Hsu, H. Y., & Ohta, N. (2021a). Cancer specific apoptosis induced by electric field: A possible key mechanism in cell-competition and photodynamic action. *Sensors and Actuators B: Chemical*, *347*(August), 130635. https://doi.org/10.1016/j.snb.2021.130635

Awasthi, K., Chang, F. L., Hsu, H. Y., & Ohta, N. (2021b). Cancer specific apoptosis induced by electric field: A possible key mechanism in cell-competition and photodynamic action. *Sensors and Actuators B: Chemical*, *347*, 130635. https://doi.org/10.1016/J.SNB.2021.130635

Ayoub, N. M., Jaradat, S. K., Al-Shami, K. M., & Alkhalifa, A. E. (2022). Targeting

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Angiogenesis in Breast Cancer: Current Evidence and Future Perspectives of Novel Anti-Angiogenic Approaches. *Frontiers in Pharmacology*, *13*(February), 1–21. https://doi.org/10.3389/fphar.2022.838133

Bae, W. J., Zhu, G. Q., Kang, S. M., Cho, H. J., Ha, U. S., Hong, S. H., Lee, J. Y., & Kim, S. W. (2018). Pd49-01 Efficient Promotion of Autophagy and Angiogenesis Using Mesenchymal Stem Cells Therapy Enhanced By the Low-Energy Shockwaves in the Treatment of Erectile Dysfunction. *Journal of Urology*, *199*(4S). https://doi.org/10.1016/j.juro.2018.02.2317

Bahaloo, M., Ebrahim Rezvani, M., Farashahi Yazd, E., Zare Mehrjerdi, F., Hossein Davari, M., Roohbakhsh, A., Mollasadeghi, A., Nikkhah, H., Vafaei, M., Houshang Mehrparvar, A., Yazd, F. E., & Mehrjerdi, Z. F. (2020). Spectroscopic investigation on the interaction of DNA with superparamagnetic iron oxide nanoparticles doped with chromene via dopamine as cross linker. *Iran J Basic Med Sci*, *23*, 594–599. https://doi.org/10.22038/IJBMS.2020.41007.9693

Bakshi, H. A., Quinn, G. A., Nasef, M. M., Mishra, V., Aljabali, A. A. A., El-Tanani, M., Serrano-Aroca, Á., Da Silva, M. W., McCarron, P. A., & Tambuwala, M. M. (2022). Crocin Inhibits Angiogenesis and Metastasis in Colon Cancer via TNF-α/NF-kB/VEGF Pathways. *Cells*, *11*(9), 1–15. https://doi.org/10.3390/cells11091502

Barnes, D. M., & Camplejohn, R. S. (1996). P53, apoptosis, and breast cancer. *Journal of Mammary Gland Biology and Neoplasia 1996 1:2*, *1*(2), 163–175. https://doi.org/10.1007/BF02013640

Bhaskar, V., Konala, R., Bhonde, R., & Pal, R. (n.d.). *Secretome studies of mesenchymal stromal cells (MSCs) isolated from three tissue sources reveal subtle differences in potency*. https://doi.org/10.1007/s11626-020-00501-1/Published

Bitar, M. S. (2019). Diabetes Impairs Angiogenesis and Induces Endothelial Cell Senescence by Up-Regulating Thrombospondin-CD47-Dependent Signaling. *International Journal of Molecular Sciences 2019, Vol. 20, Page 673*, *20*(3), 673. https://doi.org/10.3390/IJMS20030673

Camilleri-Broët, S., Hardy-Bessard, A. C., Le Tourneau, A., Paraiso, D., Levrel, O., Leduc, B., Bain, S., Orfeuvre, H., Audouin, J., & Pujade-Lauraine, E. (2004). HER-2 overexpression is an independent marker of poor prognosis of advanced primary ovarian carcinoma: A multicenter study of the GINECO group. *Annals of Oncology*, *15*(1), 104–112. https://doi.org/10.1093/annonc/mdh021

Cario, M., Pain, C., Kaulanjan-Checkmodine, P., Masia, D., Delia, G., Casoli, V., Costet, P., Goussot, J.-F., Guyonnet-Duperat, V., Bibeyran, A., Ezzedine, K., Reymermier, C., Andre-Frei, V., & Taieb, A. (2020). Epidermal keratin 5 expression and distribution is under dermal influence. *Pigment Cell &*

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Melanoma Research, *33*(3), 435–445. https://doi.org/10.1111/PCMR.12844

Chang, J.-W., Kuo, W.-H., Lin, C.-M., Chen, W.-L., Chan, S.-H., Meng, •, Chiu, F., Chang, • I-Shou, Jiang, S.-S., Fang-, •, Tsai, Y., Chen, C.-H., Huang, P.-H., Chang, K.-J., Lin, K.-T., Lin, S.-C., Wang, M.-Y., Uen, Y.-H., Tu, C.-W., … Wang, • Lu-Hai. (2018). Wild-type p53 upregulates an early onset breast cancer-associated gene GAS7 to suppress metastasis via GAS7-CYFIP1-mediated signaling pathway. *Oncogene*, *37*, 4137–4150. https://doi.org/10.1038/s41388-018-0253-9

Chen, Dong, Dai, F., Chen, Z., Wang, S., Cheng, X., Sheng, Q., Lin, J., & Chen, W. (2016). Dimethoxy curcumin induces apoptosis by suppressing survivin and inhibits invasion by enhancing E-Cadherin in colon cancer cells. *Medical Science Monitor*, *22*, 3215–3222. https://doi.org/10.12659/MSM.900802

Chen, Dongmei, Xu, J., & Zhang, Q. (2018). Detection of survivin expression in bladder cancer and renal cell carcinoma using specific monoclonal antibodies. *Oncology Reports*, *39*(6), 2817–2828. https://doi.org/10.3892/or.2018.6359

Chen, X., Duan, N., Zhang, C., & Zhang, W. (2016). Survivin and Tumorigenesis: Molecular Mechanisms and Therapeutic Strategies. *Journal of Cancer*, *7*(3), 314–323. https://doi.org/10.7150/jca.13332

Cheng, S. L., Liu, R. H., Sheu, J. N., Chen, S. T., Sinchaikul, S., & Tsay, G. J. (2007). Toxicogenomics of A375 human malignant melanoma cells treated with arbutin. *Journal of Biomedical Science*, *14*(1), 87–105. https://doi.org/10.1007/s11373-006-9130-6

Coldwell, M. J., Mitchell, S. A., Stoneley, M., MacFarlane, M., & Willis, A. E. (2000a). Initiation of Apaf-1 translation by internal ribosome entry. *Oncogene*, *19*(7), 899–905. https://doi.org/10.1038/SJ.ONC.1203407

Coldwell, M. J., Mitchell, S. A., Stoneley, M., MacFarlane, M., & Willis, A. E. (2000b). Initiation of Apaf-1 translation by internal ribosome entry. *Oncogene 2000 19:7*, *19*(7), 899–905. https://doi.org/10.1038/sj.onc.1203407

Collett, G. P., & Campbell, F. C. (2006). Overexpression of p65/RelA potentiates curcumin-induced apoptosis in HCT116 human colon cancer cells. *Carcinogenesis*, *27*(6), 1285–1291. https://doi.org/10.1093/carcin/bgi368

Cui, N., Hu, M., Khalil, R. A., Mol, P., Transl, B., & Author, S. (2017). Biochemical and Biological Attributes of Matrix Metalloproteinases HHS Public Access Author manuscript. *Prog Mol Biol Transl Sci*, *147*(617), 1–73. https://doi.org/10.1016/bs.pmbts.2017.02.005

D'Angelo, S., Martino, E., Ilisso, C. P., Bagarolo, M. L., Porcelli, M., & Cacciapuoti, G. (2017). Pro-oxidant and pro-apoptotic activity of polyphenol extract from Annurca apple and its underlying mechanisms in human breast cancer cells. *International Journal of Oncology*, *51*(3), 939–948. https://doi.org/10.3892/ijo.2017.4088

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Deng, X. H., Song, H. Y., Zhou, Y. F., Yuan, G. Y., & Zheng, F. J. (2013). Effects of quercetin on the proliferation of breast cancer cells and expression of survivin in vitro. *Experimental and Therapeutic Medicine*, *6*(5), 1155–1158. https://doi.org/10.3892/etm.2013.1285

Dibden, A., Offman, J., Duffy, S. W., & Gabe, R. (n.d.). *cancers Worldwide Review and Meta-Analysis of Cohort Studies Measuring the Effect of Mammography Screening Programmes on Incidence-Based Breast Cancer Mortality*. https://doi.org/10.3390/cancers12040976

Duffy, M. J., O'donovan, N., Brennan, D. J., Gallagher, W. M., & Ryan, B. M. (n.d.). *Mini-review Survivin: A promising tumor biomarker*. https://doi.org/10.1016/j.canlet.2006.12.020

Duffy, M. J., Synnott, N. C., & Crown, J. (2018). Mutant p53 in breast cancer: potential as a therapeutic target and biomarker. *Breast Cancer Research and Treatment 2018 170:2*, *170*(2), 213–219. https://doi.org/10.1007/S10549-018-4753-7

Estaphan, S., Abdel-Malek, R., Rashed, L., & Mohamed, E. A. (2020). Cimetidine a promising radio-protective agent through modulating Bax/Bcl2 ratio: An in vivo study in male rats. *Journal of Cellular Physiology*, *235*(11), 8495–8506. https://doi.org/10.1002/jcp.29692

Fan, G. C. (2012). Role of heat shock proteins in stem cell behavior. In *Progress in Molecular Biology and Translational Science* (1st ed., Vol. 111). Elsevier Inc. https://doi.org/10.1016/B978-0-12-398459-3.00014-9

Feng, Y., Spezia, M., Huang, S., Yuan, C., Zeng, Z., Zhang, L., Ji, X., Liu, W., Huang, B., Luo, W., Liu, B., Lei, Y., Du, S., Vuppalapati, A., Luu, H. H., Haydon, R. C., He, T. C., & Ren, G. (2018). Breast cancer development and progression: Risk factors, cancer stem cells, signaling pathways, genomics, and molecular pathogenesis. In *Genes and Diseases* (Vol. 5, Issue 2, pp. 77–106). Chongqing yi ke da xue, di 2 lin chuang xue yuan Bing du xing gan yan yan jiu suo. https://doi.org/10.1016/j.gendis.2018.05.001

Gao, Y., Wang, Y., Yu, J., & Guo, R. (2022). FGF Exhibits an Important Biological Role on Regulating Cell Proliferation of Breast Cancer When it Transports Into The Cell Nuclei. *Cell Biochemistry and Biophysics*, *80*(2), 311–320. https://doi.org/10.1007/s12013-021-01044-2

Ghufran, H., Mehmood, A., Azam, M., Butt, H., Ramzan, A., Yousaf, M. A., Ejaz, A., Tarar, M. N., & Riazuddin, S. (2020). Curcumin preconditioned human adipose derived stem cells co-transplanted with platelet rich plasma improve wound healing in diabetic rats. *Life Sciences*, *257*, 118091. https://doi.org/10.1016/J.LFS.2020.118091

Giuliani, C., Bucci, I., & Napolitano, G. (2018). The role of the transcription factor Nuclear Factor-kappa B in thyroid autoimmunity and cancer. *Frontiers in Endocrinology*, *9*(AUG), 1–8. https://doi.org/10.3389/fendo.2018.00471

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. CA: A Cancer J for. (2020). https://doi.org/10.3322/caac.21492

Goto, T., Fujioka, M., Ishida, M., Kuribayashi, M., Ueshima, K., & Kubo, T. (2010). Noninvasive up-regulation of angiopoietin-2 and fibroblast growth factor-2 in bone marrow by pulsed electromagnetic field therapy. *Journal of Orthopaedic Science : Official Journal of the Japanese Orthopaedic Association*, *15*(5), 661–665. https://doi.org/10.1007/S00776-010-1510-0

Güllülü, Ö., Hehlgans, S., Rödel, C., Fokas, E., & Rödel, F. (2021). Tumor suppressor protein p53 and inhibitor of apoptosis proteins in colorectal cancer—a promising signaling network for therapeutic interventions. *Cancers*, *13*(4), 1–22. https://doi.org/10.3390/CANCERS13040624

Haddadi, P., Mahdavi, M., & Rahbarghazi, R. (2020). Down-regulation of Bcl2 and Survivin, and up-regulation of Bax involved in copper (II) phenylthiosemicarbazone complex-induced apoptosis in leukemia stem-like KG1a cells. *Process Biochemistry*, *92*, 190–196. https://doi.org/10.1016/j.procbio.2020.01.010

Haraguchi, M., Torii, S., Matsuzawa, S.-I., Xie, Z., Kitada, S., Krajewski, S., Yoshida, H., Mak, T. W., & Reed, J. C. (2000). Apoptotic Protease Activating Factor 1 (Apaf-1)-independent Cell Death Suppression by Bcl-2. *J. Exp. Med*, *191*(10). http://www.jem.org/cgi/current/full/191/10/1709

Haupt, S., Berger, M., Goldberg, Z., & Haupt, Y. (2003). Apoptosis - The p53 network. *Journal of Cell Science*, *116*(20), 4077–4085. https://doi.org/10.1242/jcs.00739

Hausmann, G., O'reilly, L. A., Van Driel, R., Beaumont, J. G., Strasser, A., Adams, J. M., & Huang, D. C. S. (2000). Pro-apoptotic Apoptosis Protease-activating Factor 1 (Apaf-1) Has a Cytoplasmic Localization Distinct from Bcl-2 or Bcl-x L. *The Journal of Cell Biology*, *149*(3), 623–633. http://www.jcb.org

Ho Song, M., Jo, Y., Kim, Y.-K., Kook, H., Jeong, D. I., & Jin ParkID, W. (2022). *The TSP-1 domain of the matricellular protein CCN5 is essential for its nuclear localization and anti-fibrotic function*. https://doi.org/10.1371/journal.pone.0267629

Huang, Y. H., Chen, M. H., Guo, Q. L., Chen, Z. X., Chen, Q. D., & Wang, X. Z. (2020). Interleukin-10 induces senescence of activated hepatic stellate cells via STAT3-p53 pathway to attenuate liver fibrosis. *Cellular Signalling*, *66*(October 2019), 109445. https://doi.org/10.1016/j.cellsig.2019.109445

Hwang, B., Song, J. H., Park, S. L., Kim, J. T., Kim, W. J., & Moon, S. K. (2020). Carnosine impedes pdgf-stimulated proliferation and migration of vascular smooth muscle cells in vitro and sprout outgrowth ex vivo. *Nutrients*, *12*(9), 1–18. https://doi.org/10.3390/nu12092697

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Ibaraki, H., Kanazawa, T., Kurano, T., Oogi, C., Takashima, Y., & Seta, Y. (2019). Anti-RelA siRNA-Encapsulated Flexible Liposome with Tight Junction-Opening Peptide as a Non-invasive Topical Therapeutic for Atopic Dermatitis. *Biological and Pharmaceutical Bulletin*, *42*(7), 1216–1225. https://doi.org/10.1248/bpb.b19-00259

Ibrahim, N., & Haluska, F. G. (2009). Molecular pathogenesis of cutaneous melanocytic neoplasms. *Annual Review of Pathology: Mechanisms of Disease*, *4*, 551–579. https://doi.org/10.1146/annurev.pathol.3.121806.151541

Imao, T., & Nagata, S. (2013). Apaf-1- and Caspase-8-independent apoptosis. *Cell Death and Differentiation*, *20*, 343–352. https://doi.org/10.1038/cdd.2012.149

Isobe, T., Aoyagi, K., Koufuji, K., Shirouzu, K., Kawahara, A., Taira, T., & Kage, M. (2013). Clinicopathological significance of hypoxia-inducible factor-1 alpha (HIF-1α) expression in gastric cancer. *International Journal of Clinical Oncology*, *18*(2), 293–304. https://doi.org/10.1007/S10147-012-0378-8

Jackson, H. W., Fischer, J. R., Zanotelli, V. R. T., Ali, H. R., Mechera, R., Soysal, S. D., Moch, H., Muenst, S., Varga, Z., Weber, W. P., & Bodenmiller, B. (2020). The single-cell pathology landscape of breast cancer Spatially resolved single-cell phenotypes. *Nature*, *578*, 615. https://doi.org/10.1038/s41586-019-1876-x

Jemmerson, R., Staskus, K., Higgins, L., Conklin, K., & Kelekar, A. (123 C.E.). Intracellular leucine-rich alpha-2-glycoprotein-1 competes with Apaf-1 for binding cytochrome c in protecting MCF-7 breast cancer cells from apoptosis. *Apoptosis*, *1*, 71–82. https://doi.org/10.1007/s10495-020-01647-9

Jha, K., Shukla, M., & Pandey, M. (2012). Survivin expression and targeting in breast cancer. In *Surgical Oncology* (Vol. 21, Issue 2, pp. 125–131). Elsevier. https://doi.org/10.1016/j.suronc.2011.01.001

Jiang, D., Jiang, Y., Long, S., Chen, Z., Li, Y., Mo, G., Bai, L., Hao, X., Yan, Y., Li, L., Han, C., Hu, S., Zhao, H., & Kang, B. (2021). Spermidine at supraphysiological doses induces oxidative stress and granulosa cell apoptosis in mouse ovaries. *Theriogenology*, *168*, 25–32.

Katiyar, V., & Jesus, O. De. (2022). Tumor Treatment Fields In Oncology. *StatPearls*. https://www.ncbi.nlm.nih.gov/books/NBK576401/

Kestendjieva, S., Kyurkchiev, D., Tsvetkova, G., Mehandjiev, T., Dimitrov, A., Nikolov, A., & Kyurkchiev, S. (2008). Characterization of mesenchymal stem cells isolated from the human umbilical cord. *Cell Biology International*, *32*(7), 724–732. https://doi.org/10.1016/J.CELLBI.2008.02.002

Kim, E. H., Song, H. S., Yoo, S. H., & Yoon, M. (2016a). Tumor treating fields inhibit glioblastoma cell migration, invasion and angiogenesis. *Oncotarget*, *7*(40), 65125–65136. https://doi.org/10.18632/oncotarget.11372

Kim, E. H., Song, H. S., Yoo, S. H., & Yoon, M. (2016b). Tumor treating fields

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

inhibit glioblastoma cell migration, invasion and angiogenesis. *Oncotarget*, *7*(40), 65125–65136. https://doi.org/10.18632/oncotarget.11372

Kim, J.-Y., Jo, Y., Oh, H.-K., & Kim, E. H. (2020). Sorafenib increases tumor treating fields-induced cell death in glioblastoma by inhibiting STAT3. *Am J Cancer Res*, *10*(10), 3475–3486. www.ajcr.us/

Kontomanolis, E. N., Kalagasidou, S., Pouliliou, S., Anthoulaki, X., Georgiou, N., Papamanolis, V., & Fasoulakis, Z. N. (2018). The Notch Pathway in Breast Cancer Progression. *Scientific World Journal*, *1*(1), 1–12. https://doi.org/10.1155/2018/2415489

Kwon, K. R., Alam, M. B., Park, J. H., Kim, T. H., & Lee, S. H. (2019). Attenuation of UVB-induced photo-aging by polyphenolic-rich spatholobus suberectus stem extract via modulation of MAPK/AP-1/MMPs signaling in human keratinocytes. *Nutrients*, *11*(6). https://doi.org/10.3390/nu11061341

Lai, H. (2019). Exposure to Static and Extremely-Low Frequency Electromagnetic Fields and Cellular Free Radicals. *Electromagnetic Biology and Medicine*, *38*(4), 231–248. https://doi.org/10.1080/15368378.2019.1656645

Lee, D. C., Choi, H., Oh, J.-M., Lee, J., Lee, J., Lee, H. Y., & Kang, J. Y. (2020). *Urban particulate matter regulates tight junction proteins by inducing oxidative stress via the Akt signal pathway in human nasal epithelial cells*. https://doi.org/10.1016/j.toxlet.2020.07.017

Liu, Z., Cheng, S., Fu, G., Ji, F., Wang, C., & Cao, M. (2020). Postoperative administration of ketorolac averts morphine-induced angiogenesis and metastasis in triple-negative breast cancer. *Life Sciences*, *251*, 117604. https://doi.org/10.1016/J.LFS.2020.117604

Luo, L. H., Rao, L., Luo, L. F., Chen, K., Ran, R. Z., & Liu, X. L. (2020). Long non-coding RNA NKILA inhibited angiogenesis of breast cancer through NF-κB/IL-6 signaling pathway. *Microvascular Research*, *129*, 103968. https://doi.org/10.1016/j.mvr.2019.103968

Malebari, A. M., Fayne, D., Nathwani, S. M., O'Connell, F., Noorani, S., Twamley, B., O'Boyle, N. M., O'Sullivan, J., Zisterer, D. M., & Meegan, M. J. (2020). β-Lactams with antiproliferative and antiapoptotic activity in breast and chemoresistant colon cancer cells. *European Journal of Medicinal Chemistry*, *189*. https://doi.org/10.1016/j.ejmech.2020.112050

Malekian, S., Rahmati, M., Sari, S., Kazemimanesh, M., Kheirbakhsh, R., Muhammadnejad, A., & Amanpour, S. (2020). Expression of Diverse Angiogenesis Factor in Different Stages of the 4T1 Tumor as a Mouse Model of Triple-Negative Breast Cancer. *Adv Pharm Bull*, *2020*(2), 323–328. https://doi.org/10.34172/apb.2020.039

Matkar, P. N., Ariyagunarajah, R., Leong-Poi, H., & Singh, K. K. (2017). Friends Turned Foes: Angiogenic Growth Factors beyond Angiogenesis. *Biomolecules*

UNIVERSITAS GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

2017, Vol. 7, Page 74, *7*(4), 74. https://doi.org/10.3390/BIOM7040074

Maximov, G. K., & Maximov, K. G. (2008). *Biotechnology & Biotechnological Equipment The Role of p53 Tumor-Suppressor Protein in Apoptosis and Cancerogenesis REVIEW MB*. https://doi.org/10.1080/13102818.2008.10817532

McKinney, S. M., Sieniek, M., Godbole, V., Godwin, J., Antropova, N., Ashrafian, H., Back, T., Chesus, M., Corrado, G. C., Darzi, A., Etemadi, M., Garcia-Vicente, F., Gilbert, F. J., Halling-Brown, M., Hassabis, D., Jansen, S., Karthikesalingam, A., Kelly, C. J., King, D., … Shetty, S. (2020). International evaluation of an AI system for breast cancer screening. *Nature*, *577*(7788), 89–94. https://doi.org/10.1038/s41586-019-1799-6

Meng, X., Sun, B., & Xiao, Z. (2019). Comparison in transcriptome and cytokine profiles of mesenchymal stem cells from human umbilical cord and cord blood. *Gene*, *696*(January), 10–20. https://doi.org/10.1016/j.gene.2019.02.017

Messeha, S. S., Zarmouh, N. O., Asiri, A., & Soliman, K. F. A. (2020). Rosmarinic acid-induced apoptosis and cell cycle arrest in triple-negative breast cancer cells. *European Journal of Pharmacology*, *885*. https://doi.org/10.1016/j.ejphar.2020.173419

Mirochnik, Y., Kwiatek, A., & Volpert, O. (2008). Thrombospondin and Apoptosis: Molecular Mechanisms and Use for Design of Complementation Treatments. *Current Drug Targets*, *9*(10), 851–862. https://doi.org/10.2174/138945008785909347

Moghtaderi, H., Sepehri, H., & Attari, F. (2017). Combination of arabinogalactan and curcumin induces apoptosis in breast cancer cells in vitro and inhibits tumor growth via overexpression of p53 level in vivo. *Biomedicine and Pharmacotherapy*, *88*, 582–594. https://doi.org/10.1016/j.biopha.2017.01.072

Moitra, K. (2015). Overcoming Multidrug Resistance in Cancer Stem Cells. *BioMed Research International*, *2015*. https://doi.org/10.1155/2015/635745

Moll, U. M., & Zaika, A. (n.d.). *Nuclear and mitochondrial apoptotic pathways of p53*.

Mujib, S. A., Alamsyah, F., & Purwo Taruno, W. (2017). Cell Death and Induced p53 Expression in Oral Cancer, HeLa, and Bone Marrow Mesenchyme Cells under the Exposure to Noncontact Electric Fields. *Integr Med Int*, *4*, 161–170. https://doi.org/10.1159/000485186

Oktay, K., Santaliz-Casiano, A., Patel, M., Marino, N., Maria, A., Storniolo, V., Torun, H., Acar, B., & Madak Erdogan, Z. (2020). A Computational Statistics Approach to Evaluate Blood Biomarkers for Breast Cancer Risk Stratification. *Hormones and Cancer*, *11*, 17–33. https://doi.org/10.1007/s12672-019-00372-3

Osellame, L. D., Blacker, T. S., & Duchen, M. R. (2012). Cellular and molecular

UNIVERSITAS GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

mechanisms of mitochondrial function. *Best Practice & Research Clinical Endocrinology & Metabolism*, *26*(6), 711–723. https://doi.org/10.1016/J.BEEM.2012.05.003

Palomeras, S., Ruiz-Martínez, S., & Puig, T. (2018). *molecules Targeting Breast Cancer Stem Cells to Overcome Treatment Resistance*. https://doi.org/10.3390/molecules23092193

Peng, L., Fu, C., Wang, L., Zhang, Q., Liang, Z., He, C., & Wei, Q. (2021). The Effect of Pulsed Electromagnetic Fields on Angiogenesis. *Bioelectromagnetics*, *42*(3), 250–258. https://doi.org/10.1002/BEM.22330

Penn, J. W., Grobbelaar, A. O., & Rolfe, K. J. (2012). The role of the TGF-β family in wound healing, burns and scarring: a review. *International Journal of Burns and Trauma*, *2*(1), 18–28. http://www.ncbi.nlm.nih.gov/pubmed/22928164%0Ahttp://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=PMC3415964

Petrarca, C. R., Brunetto, A. T., Duval, V., Brondani, A., Carvalho, G. P., & Garicochea, B. (2011). Survivin as a predictive biomarker of complete pathologic response to neoadjuvant chemotherapy in patients with stage II and stage III breast cancer. *Clinical Breast Cancer*, *11*(2), 129–134. https://doi.org/10.1016/j.clbc.2011.03.002

Pratiwi, R., Antara, N. Y., Fadliansyah, L. G., Ardiansyah, S. A., Nurhidayat, L., Sholikhah, E. N., Sunarti, S., Widyarini, S., Fadhlurrahman, A. G., Fatmasari, H., Tunjung, W. A. S., Haryana, S. M., Alamsyah, F., & Taruno, W. P. (2019). CCL2 and IL18 expressions may associate with the anti-proliferative effect of noncontact electro capacitive cancer therapy in vivo. *F1000Research*, *8*. https://doi.org/10.12688/F1000RESEARCH.20727.1

Pratiwi, R., Antara, N. Y., Fadliansyah, L. G., Ardiansyah, S. A., Nurhidayat, L., Sholikhah, E. N., Sunarti, S., Widyarini, S., Fadhlurrahman, A. G., Fatmasari, H., Tunjung, W. A. S., Haryana, S. M., Alamsyah, F., & Taruno, W. P. (2020). CCL2 and IL18 expressions may associate with the anti-proliferative effect of noncontact electro capacitive cancer therapy in vivo. *F1000Research*, *8*, 1770. https://doi.org/10.12688/f1000research.20727.2

Pu, X., Storr, S. J., Zhang, Y., Rakha, E. A., Green, A. R., Ellis, I. O., & Martin, S. G. (2017). Caspase-3 and caspase-8 expression in breast cancer: caspase-3 is associated with survival. *Apoptosis*, *22*(3), 357–368. https://doi.org/10.1007/s10495-016-1323-5

Purawarga Matada, G. S., Dhiwar, P. S., Abbas, N., Singh, E., Ghara, A., Das, A., & Bhargava, S. V. (2021). Molecular docking and molecular dynamic studies: screening of phytochemicals against EGFR, HER2, estrogen and NF-KB receptors for their potential use in breast cancer. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2021.1877823

Rahmani, F., Ferns, G. A., Talebian, S., Nourbakhsh, M., Avan, A., & Shahidsales,

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

S. (2020). Role of regulatory miRNAs of the PI3K/AKT signaling pathway in the pathogenesis of breast cancer. In *Gene* (Vol. 737, p. 144459). Elsevier B.V. https://doi.org/10.1016/j.gene.2020.144459

Ren, B., Yee, K. O., Lawler, J., & Khosravi-Far, R. (2006). Regulation of tumor angiogenesis by thrombospondin-1. *Biochimica et Biophysica Acta (BBA) - Reviews on Cancer*, *1765*(2), 178–188. https://doi.org/10.1016/J.BBCAN.2005.11.002

Roswall, P., Bocci, M., Bartoschek, M., Li, H., Kristiansen, G., Jansson, S., Lehn, S., Sjölund, J., Reid, S., Larsson, C., Eriksson, P., Anderberg, C., Cortez, E., Saal, L. H., Orsmark-Pietras, C., Cordero, E., Haller, B. K., Häkkinen, J., Burvenich, I. J. G., … Pietras, K. (2018). Microenvironmental control of breast cancer subtype elicited through paracrine platelet-derived growth factor-CC signaling. *Nature Medicine*, *24*(4), 463–473. https://doi.org/10.1038/nm.4494

Roy, S., Sil, A., & Chakraborty, T. (2019). Potentiating apoptosis and modulation of p53, Bcl2, and Bax by a novel chrysin ruthenium complex for effective chemotherapeutic efficacy against breast cancer. *Journal of Cellular Physiology*, *234*(4), 4888–4909. https://doi.org/10.1002/jcp.27287

Royston, K. J., Udayakumar, N., Lewis, K., & Tollefsbol, T. O. (2017a). A Novel Combination of Withaferin A and Sulforaphane Inhibits Epigenetic Machinery, Cellular Viability and Induces Apoptosis of Breast Cancer Cells. *International Journal of Molecular Sciences Article*. https://doi.org/10.3390/ijms18051092

Royston, K. J., Udayakumar, N., Lewis, K., & Tollefsbol, T. O. (2017b). A Novel Combination of Withaferin A and Sulforaphane Inhibits Epigenetic Machinery, Cellular Viability and Induces Apoptosis of Breast Cancer Cells. *International Journal of Molecular Sciences Article*. https://doi.org/10.3390/ijms18051092

Ruan, W., Lim, H. H., & Surana, U. (2019). Mapping Mitotic Death: Functional Integration of Mitochondria, Spindle Assembly Checkpoint and Apoptosis. *Frontiers in Cell and Developmental Biology*, *6*, 177. https://doi.org/10.3389/FCELL.2018.00177/BIBTEX

Sa, G., & Das, T. (2008). Anti cancer effects of curcumin: Cycle of life and death. *Cell Division*, *3*, 1–14. https://doi.org/10.1186/1747-1028-3-14

Saber, S., Youssef, M. E., Sharaf, H., Amin, N. A., El-Shedody, R., Aboutouk, F. H., El-Galeel, Y. A., El-Hefnawy, A., Shabaka, D., Khalifa, A., Saleh, R. A., Osama, D., El-Zoghby, G., & Gobba, N. A. (2021). BBG enhances OLT1177-induced NLRP3 inflammasome inactivation by targeting P2X7R/NLRP3 and MyD88/NF-κB signaling in DSS-induced colitis in rats. *Life Sciences*, *270*. https://doi.org/10.1016/j.lfs.2021.119123

Schneider, B. P., & Miller, K. D. (2005). Angiogenesis of breast cancer. In *Journal of Clinical Oncology* (Vol. 23, Issue 8, pp. 1782–1790). American Society of

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Clinical Oncology. https://doi.org/10.1200/JCO.2005.12.017

Shakeri, R., Kheirollahi, A., & Davoodi, J. (2017). Apaf-1: Regulation and function in cell death. *Biochimie*, *135*, 111–125. https://doi.org/10.1016/J.BIOCHI.2017.02.001

Shi, R., Lian, W., Han, S., Cao, C., Jin, Y., Yuan, Y., Zhao, H., & Li, M. (2018). Nanosphere-mediated co-delivery of VEGF-A and PDGF-B genes for accelerating diabetic foot ulcers healing in rats. *Gene Therapy*, *25*(6), 425–438. https://doi.org/10.1038/s41434-018-0027-6

Shimabukuro-Vornhagen, A., Draube, A., Liebig, T. M., Rothe, A., Kochanek, M., & Von Bergwelt-Baildon, M. S. (2012). The immunosuppressive factors IL-10, TGF-β, and VEGF do not affect the antigen-presenting function of CD40-activated B cells. *Journal of Experimental and Clinical Cancer Research*, *31*(1), 1–7. https://doi.org/10.1186/1756-9966-31-47

Sofiabadi, M., Zarbaf, R., Abdolahpour, A., Koushki Jahromi, M., Peymani, A., & Khosravi, N. (2020). Effect of exercise training before mating on mRNA expression of breast cancer-related genes in offspring in rats. *Science and Sports*, *35*(5), 312.e1-312.e9. https://doi.org/10.1016/j.scispo.2020.03.004

Sokol, A. M., Sztolsztener, M. E., Wasilewski, M., Heinz, E., & Chacinska, A. (2014). Mitochondrial protein translocases for survival and wellbeing. *FEBS Letters*, *588*(15), 2484–2495. https://doi.org/10.1016/J.FEBSLET.2014.05.028

Song, M. H., Jo, Y., Kim, Y. K., Kook, H., Jeong, D., & Park, W. J. (2022). The TSP-1 domain of the matricellular protein CCN5 is essential for its nuclear localization and anti-fibrotic function. *PLOS ONE*, *17*(4), e0267629. https://doi.org/10.1371/JOURNAL.PONE.0267629

Sun, S., Dong, H., Yan, T., Li, J., Liu, B., Shao, P., Li, J., & Liang, C. (n.d.). *Role of TSP-1 as prognostic marker in various cancers: a systematic review and meta-analysis*. https://doi.org/10.1186/s12881-020-01073-3

Swamy, G., Matada, P., Sanjay Dhiwar, P., Abbas, N., Singh, E., Ghara, A., Das, A., Sapna, &, Bhargava, V., & Vyas Bhargava, S. (2021). *Molecular docking and molecular dynamic studies: screening of phytochemicals against EGFR, HER2, estrogen and NF-KB receptors for their potential use in breast cancer*. https://doi.org/10.1080/07391102.2021.1877823

Taki, F. A., Abdel-Rahman, A. A., & Zhang, B. (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), 94311. https://doi.org/10.1371/journal.pone.0094311

Tao, Z. Q., Shi, A., Lu, C., Song, T., Zhang, Z., & Zhao, J. (2015). Breast Cancer: Epidemiology and Etiology. *Cell Biochemistry and Biophysics*, *72*(2), 333–338. https://doi.org/10.1007/s12013-014-0459-6

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Tao, Z., Shi, A., Lu, C., Song, T., Zhang, Z., & Zhao, J. (2013). Breast Cancer: Epidemiology and Etiology. *Cell Biochemistry and Biophysics*. https://doi.org/10.1007/s12013-014-0459-6

Telli, M. L., & Carlson, R. W. (2009). First-line chemotherapy for metastatic breast cancer. *Clinical Breast Cancer*, *9*(SUPPL.2), S66–S72. https://doi.org/10.3816/CBC.2009.s.007

Vyas, D., Laput, G., & Vyas, A. K. (2014). Chemotherapy-enhanced inflammation may lead to the failure of therapy and metastasis. *OncoTargets and Therapy*, *7*, 1015–1023. https://doi.org/10.2147/OTT.S60114

Wang, S., Mo, M., Wang, J., Sadia, S., Shi, B., Fu, X., Yu, L., Tredget, E. E., & Wu, Y. (2018). Platelet-derived growth factor receptor beta identifies mesenchymal stem cells with enhanced engraftment to tissue injury and pro-angiogenic property. *Cellular and Molecular Life Sciences*, *75*(3), 547–561. https://doi.org/10.1007/s00018-017-2641-7

Weber, M. S., Wojtynek, M., & Medalia, O. (2019). Cellular and Structural Studies of Eukaryotic Cells by Cryo-Electron Tomography. *Cells 2019, Vol. 8, Page 57*, *8*(1), 57. https://doi.org/10.3390/CELLS8010057

Wenger, C., Miranda, P. C., Salvador, R., Thielscher, A., Bomzon, Z., Giladi, M., Mrugala, M. M., & Korshoej, A. R. (2018). A Review on Tumor-Treating Fields (TTFields): Clinical Implications Inferred from Computational Modeling. *IEEE Reviews in Biomedical Engineering*, *11*, 195–207. https://doi.org/10.1109/RBME.2017.2765282

Williams, C. D., & Markov, M. S. (2009). THERAPEUTIC ELECTROMAGNETIC FIELD EFFECTS ON ANGIOGENESIS DURING TUMOR GROWTH: A PILOT STUDY IN MICE. *Http://Dx.Doi.Org/10.1081/JBC-100108573*, *20*(3), 323–329. https://doi.org/10.1081/JBC-100108573

Wise, L. M., Stuart, G. S., Real, N. C., Fleming, S. B., & Mercer, A. A. (2018). VEGF Receptor-2 Activation Mediated by VEGF-E Limits Scar Tissue Formation Following Cutaneous Injury. *Advances in Wound Care*, *7*(8), 283–297. https://doi.org/10.1089/wound.2016.0721

Woo, S. H., Kim, B., Kim, S. H., Jung, B. C., Lee, Y., & Kim, Y. S. (2022). Pulsed electromagnetic field potentiates etoposide-induced MCF-7 cell death. *BMB Reports*, *55*(3), 148–153. https://doi.org/10.5483/BMBRep.2022.55.3.119

Wu, H., Ma, S., Xiang, M., & Tong, S. (2019). HTRA1 promotes transdifferentiation of normal fibroblasts to cancer-associated fibroblasts through activation of the NF-κB/bFGF signaling pathway in gastric cancer. *Biochemical and Biophysical Research Communications*, *514*(3), 933–939. https://doi.org/10.1016/J.BBRC.2019.05.076

Yaghooti, H., Mohammadtaghvaei, N., & Mahboobnia, K. (2019). Effects of

UNIVERSITAS
GADJAH MADA
Ekspresi Relatif mRNA p53, Apaf-1 dan Survivin terkait Apoptosis serta NF-kappaB, TSP-1 dan bFGF terkait Angiogenesis pada Jaringan Tumor Payudara Tikus Pasca Electro Capacitive Cancer Therapy Frekuensi 150 kHz
NURUL HIDAYAH, Dr.Rarastoeti Pratiwi, M.Sc.; Assoc. Dr.dr.Agung Putra, M.Si.Med.
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

palmitate and astaxanthin on cell viability and proinflammatory characteristics of mesenchymal stem cells. *International Immunopharmacology*, *68*(October 2018), 164–170. https://doi.org/10.1016/j.intimp.2018.12.063

Yang, M., & Brackenbury, W. J. (2013). Membrane potential and cancer progression. *Frontiers in Physiology*, *4 JUL*(July 2013). https://doi.org/10.3389/fphys.2013.00185

Yao, Cheng, Lee, D. H., Oh, J. H., Kim, M. K., Kim, K. H., Park, C. H., & Chung, J. H. (2015). Poly(I : C) induces expressions of MMP-1, -2, and -3 through various signaling pathways including IRF3 in human skin fibroblasts. *Journal of Dermatological Science*, *80*(1), 54–60. https://doi.org/10.1016/j.jdermsci.2015.06.017

Yao, Chunyan, He, F., Liu, L., Zhang, Z., Zhao, C., Qiu, W., Zhao, D., Zhang, J., Xie, M., Gong, Y., Yu, T., Xia, L., Qian, B., & Wang, Y. (2018). Cellular Physiology and Biochemistry Cellular Physiology and Biochemistry Sublytic C5b-9 Induces Glomerular Mesangial Cell Apoptosis Through miR-3546/SOX4/Survivin Axis in Rat Thy-1 Nephritis. *Cell Physiol Biochem*, *49*, 1898–1917. https://doi.org/10.1159/000493652

Yonemitsu, R., Tokunaga, T., Shukunami, C., Ideo, K., Arimura, H., Karasugi, T., Nakamura, E., Ide, J., Hiraki, Y., & Mizuta, H. (n.d.). *Fibroblast Growth Factor 2 Enhances Tendon-to-Bone Healing in a Rat Rotator Cuff Repair of Chronic Tears*. https://doi.org/10.1177/0363546519836959

Yonemitsu, R., Tokunaga, T., Shukunami, C., Ideo, K., Arimura, H., Karasugi, T., Nakamura, E., Ide, J., Hiraki, Y., & Mizuta, H. (2019). Fibroblast Growth Factor 2 Enhances Tendon-to-Bone Healing in a Rat Rotator Cuff Repair of Chronic Tears. *American Journal of Sports Medicine*, *47*(7), 1701–1712. https://doi.org/10.1177/0363546519836959

Zhang, Y., Wu, J., Jing, H., Huang, G., Sun, Z., & Xu, S. (2019). Long noncoding RNA MEG3 inhibits breast cancer growth via upregulating endoplasmic reticulum stress and activating NF-κB and p53. *Journal of Cellular Biochemistry*, *120*(4), 6789–6797. https://doi.org/10.1002/JCB.27982

Zhu, X., Shou, Y., Ji, X., Hu, Y., & Wang, H. (2021). S-adenosylmethionine decarboxylase 1 and its related spermidine synthesis mediate PM2.5 exposure-induced neuronal apoptosis. *Ecotoxicology and Environmental Safety*, *224*.