

## DAFTAR PUSTAKA

- Abandansari, R.M. *et al.* (2018) ‘Effect of simultaneous treatment with royal jelly and doxorubicin on the survival of the prostate cancer cell line (PC3): An in vitro study’, *International Journal of Cancer Management*, 11(4). Available at: <https://doi.org/10.5812/ijcm.13780>.
- Aboud, L. *et al.* (2016) ‘What is a stem cell ? What are stem cells ?’, (March).
- Ahmad, S. *et al.* (2020) ‘New insights into the biological and pharmaceutical properties of royal jelly’, *International Journal of Molecular Sciences*, 21(2). Available at: <https://doi.org/10.3390/ijms21020382>.
- Ahmed, S. and Othman, N.H. (2013) ‘Honey as a potential natural anticancer agent: A review of its mechanisms’, *Evidence-based Complementary and Alternative Medicine*, 2013(c). Available at: <https://doi.org/10.1155/2013/829070>.
- Al-Jadi, A.M., Kanyan Enchang, F. and Mohd Yusoff, K. (2014) ‘The effect of Malaysian honey and its major components on the proliferation of cultured fibroblasts’, *Turkish Journal of Medical Sciences*, 44(5), pp. 733–740. Available at: <https://doi.org/10.3906/sag-1303-43>.
- Al-Mohrej, O. *et al.* (2016) ‘Current view of bone regeneration using mesenchymal stem cells’, *Journal of Orthopaedics and Allied Sciences*, 4(1), p. 1. Available at: <https://doi.org/10.4103/2319-2585.180677>.
- Angst, E., Park, J.L., Moro, A., Lu, Q.Y., Lu, X., Li, G., King, J., Chen, M., Reber, H.A., Go, V.L.W. and Eibl, G., 2013. The flavonoid quercetin inhibits pancreatic cancer growth in vitro and in vivo. *Pancreas*, 42(2), p.223.
- Apoptosis / Bio-Rad* (2017). Available at: <https://www.bio-rad-antibodies.com/apoptosis-overview.html> (Accessed: 16 October 2022).
- Aslan, A. *et al.* (2022) ‘Royal jelly regulates the caspase, Bax and COX-2, TNF- $\alpha$  protein pathways in the fluoride exposed lung damage in rats’, *Tissue and Cell*, 76(November 2021), p. 101754. Available at: <https://doi.org/10.1016/j.tice.2022.101754>.
- Aslan, Z. and Aksoy, L. (2015) ‘Anti-inflammatory effects of royal jelly on ethylene glycol induced renal inflammation in rats’, *International Braz J Urol*, 41(5), pp. 1008–1013. Available at: <https://doi.org/10.1590/S1677-5538.IBJU.2014.0470>.
- Atashi, F., Modarressi, A. and Pepper, M.S. (2015) ‘The role of reactive oxygen species in mesenchymal stem cell adipogenic and osteogenic differentiation: A review’, *Stem Cells and Development*, 24(10), pp. 1150–1163. Available at: <https://doi.org/10.1089/scd.2014.0484>.

- Batumalaie, K. *et al.* (2013) ‘Effect of gelam honey on the oxidative stress-induced signaling pathways in pancreatic hamster cells’, *International Journal of Endocrinology*, 2013. Available at: <https://doi.org/10.1155/2013/367312>.
- Bio-Rad (2006) ‘Real-Time PCR Applications Guide’, Methods, pp. 2–4.
- Börzsönyi, B. *et al.* (2013) ‘The regulation of apoptosis in intrauterine growth restriction: A study of Bcl-2 and Bax gene expression in human placenta’, *Journal of Maternal-Fetal and Neonatal Medicine*, 26(4), pp. 347–350. Available at: <https://doi.org/10.3109/14767058.2012.733770>.
- Braun, F. *et al.* (2011) ‘Serum-nutrient starvation induces cell death mediated by bax and puma that is counteracted by p21 and unmasked by Bcl-x L inhibition’, *PLoS ONE*, 6(8). Available at: <https://doi.org/10.1371/journal.pone.0023577>.
- ‘Cell cycle’ (2020), (M), pp. 1–9. Available at: [https://uomustansiriyah.edu.iq/media/lectures/2/2\\_2020\\_02\\_05!11\\_28\\_55\\_AM.pdf](https://uomustansiriyah.edu.iq/media/lectures/2/2_2020_02_05!11_28_55_AM.pdf) (Accessed: 31 October 2022).
- Chen, D. *et al.* (2016) ‘Evaluation of the major royal jelly proteins as an alternative to fetal bovine serum in culturing human cell lines’, *Journal of Zhejiang University: Science B*, 17(6), pp. 476–483. Available at: <https://doi.org/10.1631/jzus.B1500295>.
- Cihan, Y.B., Ozturk, A. and Gokalp, S.S. (2013) ‘Protective role of royal jelly against radiation-induced oxidative stress in rats’, *UHOD - Uluslararası Hematoloji-Onkoloji Dergisi*, 23(2), pp. 79–87. Available at: <https://doi.org/10.4999/uhod.11016>.
- Dhaffa, M. (2022). Uji Proliferasi MTS ASSAY Terhadap Adipose Mesenchymal Stem Cells Pada Media Kultur DMEM Bebas Serum Dengan Penambahan Madu Tetragonula sp Dan Royal Jelly Apis mellifera. [Skripsi] Jakarta Selatan. Fakultas Kedokteran. Universitas Pembangunan Nasional Veteran Jakarta. 74 hal.
- Das, K. and Roychoudhury, A. (2014) ‘Reactive oxygen species (ROS) and response of antioxidants as ROS-scavengers during environmental stress in plants’, *Frontiers in Environmental Science*, 2(DEC), pp. 1–13. Available at: <https://doi.org/10.3389/fenvs.2014.00053>.
- Denu, R.A. and Hematti, P. (2016) ‘Effects of Oxidative Stress on Mesenchymal Stem Cell Biology’, *Oxidative Medicine and Cellular Longevity*, 2016. Available at: <https://doi.org/10.1155/2016/2989076>.
- Elmore, S. (2007) ‘Apoptosis: A Review of Programmed Cell Death’, *Toxicologic Pathology*, 35(4), pp. 495–516. Available at:

- [https://doi.org/10.1080/01926230701320337.](https://doi.org/10.1080/01926230701320337)
- Erejuwa, O.O., Sulaiman, S.A. and Ab Wahab, M.S. (2014) ‘Effects of honey and its mechanisms of action on the development and progression of cancer’, *Molecules*, 19(2), pp. 2497–2522. Available at: <https://doi.org/10.3390/molecules19022497>.
- Fachrani, Q.S. et al. (2021) ‘The effect of Indonesian honey Tetragonula sp. And Indonesian royal jelly Apis mellifera (*Ceiba pentandra*) to human preputium cell proliferation in serum-free DMEM’, *IOP Conference Series: Earth and Environmental Science*, 755(1). Available at: <https://doi.org/10.1088/1755-1315/755/1/012043>.
- Forssa, H. and Spring, S.D. (2019) ‘Pollinators behavior on faba beans’.
- Fraile, M. et all (2016) ‘Aging and Mesenchymal Stem Cells: Basic Concepts, Challenges and Strategies’, *journal biology MDPI*, pp. 127–136. Available at: [https://doi.org/10.1007/978-3-319-32204-9\\_7](https://doi.org/10.1007/978-3-319-32204-9_7).
- Frese, L., Dijkman, P.E. and Hoerstrup, S.P. (2016) ‘Adipose tissue-derived stem cells in regenerative medicine’, *Transfusion Medicine and Hemotherapy*, 43(4), pp. 268–274. Available at: <https://doi.org/10.1159/000448180>.
- Gimble, J.M. et al. (2013) ‘Adipose-derived stromal/stem cells: A primer’, *Organogenesis*, 9(1), pp. 3–10. Available at: <https://doi.org/10.4161/org.24279>.
- Gitler, A.D., Dhillon, P. and Shorter, J. (2017) ‘Neurodegenerative disease: Models, mechanisms, and a new hope’, *DMM Disease Models and Mechanisms*, 10(5), pp. 499–502. Available at: <https://doi.org/10.1242/dmm.030205>.
- Gstraunthaler, G., Lindl, T. and Van Der Valk, J. (2014) ‘A severe case of fraudulent blending of fetal bovine serum strengthens the case for serum-free cell and tissue culture applications’, *ATLA Alternatives to Laboratory Animals*, 42(3), pp. 207–209. Available at: <https://doi.org/10.1177/026119291404200308>.
- Handoyo, D. and Rudiretna, A. (2001) ‘Prinsip umum dan pelaksanaan Polymerase Chain Reaction (PCR)’, *Unitas*, 9(1), pp. 17–29.
- Hardwick, J.M. and Soane, L., 2013. Multiple functions of BCL-2 family proteins. *Cold Spring Harbor perspectives in biology*, 5(2), p.a008722.
- Hasanah, N., Wulan, A. J., & Prabowo, A.Y. (2017) ‘Transplantasi Sel Punca Darah Tali Pusat sebagai Pengobatan Penyakit akibat Kelainan Darah Cord Blood Umbilical Stem Cell Transplantation as a Treatment of a Blood Disease’, *Jurnal Majority*, 7(1), pp. 123–129.

- Huang, Y.Z. *et al.* (2020) 'Mesenchymal Stem Cells for Chronic Wound Healing: Current Status of Preclinical and Clinical Studies', *Tissue Engineering - Part B: Reviews*, 26(6), pp. 555–570. Available at: <https://doi.org/10.1089/ten.teb.2019.0351>.
- Jochems, C.E.A. *et al.* (2002) 'The use of fetal bovine serum: Ethical or scientific problem?', *ATLA Alternatives to Laboratory Animals*, 30(2), pp. 219–227. Available at: <https://doi.org/10.1177/026119290203000208>.
- Jovanović, M. *et al.* (2018) 'Effects of royal jelly on energy status and expression of apoptosis and biotransformation genes in normal fibroblast and colon cancer cells', *Kragujevac Journal of Science*, 40(40), pp. 175–192. Available at: <https://doi.org/10.5937/kgjsci1840175j>.
- Kalkavan, H. and Green, D.R. (2018) 'MOMP, cell suicide as a BCL-2 family business', *Cell Death and Differentiation*, 25(1), pp. 46–55. Available at: <https://doi.org/10.1038/cdd.2017.179>.
- Karimah, F. (2022) 'EKSPRESI GEN Bax DAN Bcl-2 PADA Macaca fascicularis SEBAGAI HEWAN MODEL PENELITIAN Papillomavirus FATIYA KARIMAH'.
- Kicinska, A. and Jarmuszkiewicz, W. (2020) 'Flavonoids and mitochondria: Activation of cytoprotective pathways?', *Molecules*, 25(13). Available at: <https://doi.org/10.3390/molecules25133060>.
- Kolios, G. and Moodley, Y. (2012) 'Introduction to stem cells and regenerative medicine', *Respiration*, 85(1), pp. 3–10. Available at: <https://doi.org/10.1159/000345615>.
- Krueger, A. *et al.* (2001) 'FLICE-Inhibitory Proteins: Regulators of Death Receptor-Mediated Apoptosis', *Molecular and Cellular Biology*, 21(24), pp. 8247–8254. Available at: <https://doi.org/10.1128/mcb.21.24.8247-8254.2001>.
- Kwon, D. *et al.* (2016) 'The effect of fetal bovine serum (FBS) on efficacy of cellular reprogramming for induced pluripotent stem cell (iPSC) generation', *Cell Transplantation*, 25(6), pp. 1025–1042. Available at: <https://doi.org/10.3727/096368915X689703>.
- Laher, I. (2014) *Systems biology of free radicals and antioxidants, Systems Biology of Free Radicals and Antioxidants*. Available at: <https://doi.org/10.1007/978-3-642-30018-9>.
- Lee, J.-D. (2013) 'Effect of Apoptosis on Porcine Parthenotes Development in vitro', *Journal of the Korea Academia-Industrial cooperation Society*, 14(8), pp. 3843–3849. Available at: <https://doi.org/10.5762/kais.2013.14.8.3843>.
- Lu, Y. *et al.* (2012) 'Autophagy and apoptosis during adult adipose-derived stromal cells differentiation into neuron-like cells in vitro', *Neural Regeneration*

- Research*, 7(16), pp. 1205–1212. Available at: <https://doi.org/10.3969/j.issn.1673-5374.2012.16.001>.
- Majno, G. and Joris, I. (1995) ‘An overview of cell death mechanisms in eukaryotes’, *American Journal of Pathology*, 146(1), pp. 3–15.
- Mardhiyah, I. and Yonata, A. (2015) ‘Efek Protektif Hesperidin terhadap Nefrotoksisitas akibat Penggunaan Cisplatin’, 4.
- Marie Hardwick, J. and Soane, L. (2013) ‘Multiple functions of BCL-2 family proteins’, *Cold Spring Harbor Perspectives in Biology*, 5(2), pp. 1–22. Available at: <https://doi.org/10.1101/cshperspect.a008722>.
- Maros, H. and Juniar, S. (2016) ‘Distribusi Mitokondria dan Ekspresi BAX pada HUVEC’s yang Mengalami Apoptosis Akibat Induksi OX-LDL’, (6), pp. 1–23. Available at: <https://doi.org/10.21776/ub.jkb.2006.022.02.4>
- Mortensen, A., Schmehl, D. and Ellis, J. (2013) ‘European Honey Bee *Apis mellifera* Linnaeus and subspecies (Insecta: Hymenoptera: Apidae)’, *University of Florida - Department of Entomology and Nematology*, 1(1), pp. 1–6. Available at: [http://entnemdept.ufl.edu/creatures/MISC/BEESeuro\\_honey\\_bee.htm#top](http://entnemdept.ufl.edu/creatures/MISC/BEESeuro_honey_bee.htm#top).
- Mustikaningtyas, E. and Romdhoni, A.C. (2013) ‘Stem Cell pada Karsinoma Nasofaring’, *Jurnal THT-KL*, pp. 41–51.
- Nair, U. (2016) *The Real-Time PCR Digest*. Available at: <https://bitesizebio.com/29508/real-time-pcr-digest/> (Accessed: 25 October 2022).
- Nandi, A., Yan, L.J., Jana, C.K. and Das, N., 2019. Role of catalase in oxidative stress-and age-associated degenerative diseases. *Oxidative medicine and cellular longevity*, 2019.
- Pavlova, T. et al. (2018) ‘Quality characteristics of honey: A review’, *Proceedings of University of Ruse*, 57(September), pp. 31–37. Available at: <https://www.honey.com/files/general/refguide.pdf>;
- Pawlowski, J. and Kraft, A.S. (2000) ‘Bax-induced apoptotic cell death’, *Proceedings of the National Academy of Sciences of the United States of America*, 97(2), pp. 529–531. Available at: <https://doi.org/10.1073/pnas.97.2.529>.
- Piletz, J.E. et al. (2018) ‘Human Cells Grown With or Without Substitutes for Fetal Bovine Serum’, *Cell Medicine*, 10, p. 215517901875514. Available at: <https://doi.org/10.1177/2155179018755140>.
- Rahardianti, R. (no date) ‘Prosiding Pertemuan Teknis Teknisi Litkayasa Lingkup Nabilah Nur Izzati, 2023

BBPBAP Jepara Tahun 2017 (ct).pdf'.

- Rahardianti, R. and Nur, E.M. (2017) ‘Akurasi Metode Real Pcr untuk Analisa Ekspresi Gen PmVRP15’, *Prosiding Pertemuan Teknis Teknisi Litkayasa Lingkup BBPBAP Jepara*, pp. 1–166.
- Rathor, V.S., Rasmussen, C. and Saini, M.S. (2013) ‘New record of the stingless bee *Tetragonula gressitti* from India (Hymenoptera: Apidae: Meliponini)’, *Journal of Melittology*, (7), p. 1. Available at: <https://doi.org/10.17161/jom.v0i7.4454>.
- Redza-Dutordoir, M. and Averill-Bates, D.A. (2016) ‘Activation of apoptosis signalling pathways by reactive oxygen species’, *Biochimica et Biophysica Acta - Molecular Cell Research*, 1863(12), pp. 2977–2992. Available at: <https://doi.org/10.1016/j.bbamcr.2016.09.012>.
- Riawan, W. et al. (2006) ‘MITOCHONDRIAL DISTRIBUTION AND BAX EXPRESSION ON APOPTOTIC HUVEC’s INDUCED WITH OX-LDL’, (6), pp. 1–23.
- Rofeal, M. and El-Malek, F.A. (2021) ‘Valorization of Lipopeptides Biosurfactants as Anticancer Agents’, *International Journal of Peptide Research and Therapeutics*, 27(1), pp. 447–455. Available at: <https://doi.org/10.1007/s10989-020-10105-8>.
- Saeed, M.A. et al. (2017) ‘Efficacy of human platelet rich fibrin exudate vs fetal bovine serum on proliferation and differentiation of dental pulp stem cells’, *International Journal of Stem Cells*, 10(1), pp. 38–47. Available at: <https://doi.org/10.15283/ijsc16067>.
- Saeed, N.K., Al-Biltagi, M. and Bediwy, A.S. (2021) ‘Molecular Testing for COVID-19: What the Clinician Should Know’, *Dr. Sulaiman Al Habib Medical Journal*, 3(2), p. 53. Available at: <https://doi.org/10.2991/dsahmj.k.210427.002>.
- Samarghandian, S., Azimi Nezhad, M. and Mohammadi, G., (2014). Role of caspases, Bax and Bcl-2 in chrysins-induced apoptosis in the A549 human lung adenocarcinoma epithelial cells. *Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents)*, 14(6), pp.901-909
- Schmittgen, T.D., Ohio, P.D. and Pharmacy, C. (no date) ‘Quantitative Real-Time RT-PCR’.
- Shafeeq, N.K. (2021) ‘Polymer Chain Reaction (PCR): Principle and Applications’, *Ibn AL-Haitham Journal For Pure and Applied Sciences*, 34(4), pp. 35–44. Available at: <https://doi.org/10.30526/34.4.2699>.
- Shafira, M. et al. (2019) ‘High tetragonula sp honey addition reduce cell proliferation on fibroblast preputium culture’, *IOP Conference Series: Materials Science and Engineering*, 508(1). Available at:

- [https://doi.org/10.1088/1757-899X/508/1/012146.](https://doi.org/10.1088/1757-899X/508/1/012146)
- Shahzad, S., Afzal, M., Sikandar, S. and Afzal, I., 2020. Polymerase chain reaction. In *Genetic Engineering-A Glimpse of Techniques and Applications*. IntechOpen
- Shanskii, Y.D. *et al.* (2013) ‘Human platelet lysate as a promising growth-stimulating additive for culturing of stem cells and other cell types’, *Bulletin of Experimental Biology and Medicine*, 156(1), pp. 146–151. Available at: <https://doi.org/10.1007/s10517-013-2298-7>.
- Singh, R.K., Gaikwad, S.M., Chatterjee, S. and Ray, P., 2014. Stem cells: The holy grail of regenerative medicine. In *Engineering in Translational Medicine* (pp. 19-69). Springer, London
- Stem Cell Differentiation / Tocris Bioscience* (2020). Available at: <https://www.tocris.com/cell-biology/stem-cell-differentiation> (Accessed: 22 October 2022).
- Subbiahanadar Chelladurai, K. *et al.* (2021) ‘Alternative to FBS in animal cell culture - An overview and future perspective’, *Heliyon*, 7(8), p. e07686. Available at: <https://doi.org/10.1016/j.heliyon.2021.e07686>.
- Syahidah, H.N. and Hadisaputri, Y.E. (2016) ‘Review Artikel: Media Yang Digunakan Pada Kultur Sel’, *Farmaka*, 14(3), pp. 27–36. Available at: <http://jurnal.unpad.ac.id/farmaka/article/view/10615>.
- Trubiani, O. and Diomede, F. (2015) ‘Xeno-free culture of human periodontal ligament stem cells’, *Methods in Molecular Biology*, 1283(October 2014), pp. 87–92. Available at: [https://doi.org/10.1007/7651\\_2014\\_122](https://doi.org/10.1007/7651_2014_122).
- Waheed, M. *et al.* (2019) ‘Honey and cancer: A mechanistic review’, *Clinical Nutrition*, 38(6), pp. 2499–2503. Available at: <https://doi.org/10.1016/j.clnu.2018.12.019>.
- Wang, Y. hao *et al.* (2019) ‘Adipose Stem Cell-Based Clinical Strategy for Neural Regeneration: A Review of Current Opinion’, *Stem Cells International*, 2019(May 2018). Available at: <https://doi.org/10.1155/2019/8502370>.
- Widayat, W. *et al.* (2019) ‘Real Time-Polymerase Chain Reaction (RT-PCR) sebagai Alat Deteksi DNA Babi dalam Beberapa Produk Non-Pangan’, *Indonesia Journal of Halal*, 2(1), p. 26. Available at: <https://doi.org/10.14710/halal.v2i1.5361>.
- Harahap, M., Sulardiono, B., dan Suprapto, D. (2018) ‘Analisis Tingkat Kematangan Gonad Teripang Keling(Holothuria atra) Di Perairan Menjangan Kecil, KarimunJawa’, 7, pp. 6–7.

Xie, B., Yang, J. and Zhang, J., 2022. Chrysin sensitizes osteosarcoma cells against TRAIL-induced apoptosis. *Cell Biology International*.

You, M.M. *et al.* (2018) ‘Royal jelly attenuates LPS-induced inflammation in BV-2 microglial cells through modulating NF-κB and p38/JNK signaling pathways’, *Mediators of Inflammation*, 2018. Available at: <https://doi.org/10.1155/2018/7834381>.

Yuan, X. *et al.* (2016) ‘Mitochondrial apoptosis and autophagy in the process of adipose-derived stromal cell differentiation into astrocytes’, *Cell Biology International*, 40(2), pp. 156–165. Available at: <https://doi.org/10.1002/cbin.10548>.