

DAFTAR PUSTAKA

- Abdelkader TS, Chang SN, Kim TH, Song J, Kim DS, dan Park JH. 2013. Exposure Time to Caffeine Affects Heartbeat and Cell Damage-Related Gene Expression of Zebrafish *Danio rerio* Embryos at Early Developmental Stages. *Journal of Applied Toxicology* 33: 1277-1283.
- Alberts B, Johnson A, Lewis J, et al. 2002. *Molecular Biology of the Cell. 4th edition*; Programmed Cell Death (Apoptosis). Garland Science, New York.
- Aurora H. 2012. *Pengaruh Genistein dan Coumestrol Terhadap Neuron Dopaminergik pada Tahap Awal Perkembangan Zebrafish (Danio rerio)*. Tesis. Program Pasca Sarjana Fakultas Kedokteran Universitas Brawijaya. Malang.
- Balakrishnan B, Thorstensen EB, Ponnampalam AP, dan Mitchell MD. 2010. Transplacental Transfer and Biotransformation of Genistein in Human Placenta. *Placenta* 31: 506-511.
- Betaningrum, HU. 2012. *Pengaruh Perbedaan Waktu Paparan Genistein terhadap Teratogenesis Zebrafish (Danio rerio) pada Tahap Awal Perkembangan*. Skripsi. Fakultas Kedokteran Universitas Brawijaya, Malang.
- Capiotti KM, Menezes FP, Nazario LR, Pohlmann JB, De Oliveira GMT, Fazenda L, Bogo MR, Bonan CD, Da Silva RS. 2011. Early exposure to caffeine affects gene expression of adenosine receptors, DARPP-32 and BDNF without affecting sensibility and morphology of developing zebrafish (*Danio rerio*). *Neurotoxicology and Teratology* 33(6): 680-685.
- Chan WH, Lu YH, Shiao NH. 2007. Effect of Genistein on Mouse Blastocyst Development In Vitro. *Acta Pharmacologica Sinica* 28: 238-245.
- Dixon RA dan Ferreira D. 2002. Genistein. *Phytochemistry* 60: 205-211.
- Gross A, McDonnell JM, Korsmeyer SJ. 1999. BCL-2 Family members and the mitochondria in apoptosis. *Genes & Development* 13: 1899-1911.
- Fridman SJ dan Lowe SW. 2003. Control of apoptosis by p53. *Oncogene* 22: 9030-9040.
- Hang LMA. 2007. *Characterization of Calcium Signals during The Blastula Period of Zebrafish (Danio rerio) Embryogenesis*. Tesis. Program Studi Biologi Hong Kong University of Science and Technology, Hong Kong.
- Hidayat T. 2011. *Peningkatan Rasio Bcl-2/Bax Berkaitan dengan Penurunan Apoptosis Limfosit: Studi pada Bronkiolus dan Paru Mencit Asma*. Tesis. Program Pasca Sarjana Fakultas Kedokteran Universitas Brawijaya, Malang.
- Iskandar YM. dan Priatni S. 2008. Isoflavones Aglicone of Tempe Malang Fried Slice. *Indonesian Journal of Chemistry* 8(3): 437-442.

- Kais B, Schneider KE, Keiter S, Henn K, Ackermann C, Brauneck T. 2013. DMSO Modifies the permeability of the zebrafish (*Danio rerio*) Chorion-Implications for The Fish Embryo Test (FET). *Aquatic Toxicology* 140-141: 229-238.
- Kane DA dan Kimmel CB. 1993. The Zebrafish Midblastula Transition. *Development* 119: 447-456.
- Kim DJ, Seok SH, Baek MW, Lee HY, Na YR, Park SH, Lee HK, dan Dutta NK, Kawakami K, dan Park JH. 2009. Developmental toxicity and brain aromatase induction by high genistein concentrations in zebrafish embryos. *Toxicology Mechanisms and Methods* 19(3): 251–256.
- Kimmel, CB, Ballard WW, Seth SR, Ullmann B, dan Schilling TF. 1995. Stages of Embryonic Development of th Zebrafish. *Developmental Dynamics* 203: 253-310.
- Kishida MA, Tchoudakova, D. S. Miller, Callard. 1999. Analysis of The Goldfish *Carassius auratus* Aromatase P450arom Gene Promoters by Green Fluorescent Protein GFP Expression in Living Zebrafish *Danio rerio* Embryos. *Bull Mount Desert Island Bio Lab* 38: 37-38.
- Langman J. 2003. *Langman's Medical Embryology*. 9th Edition. Sadler TW. Philadelphia: Wolters Kluwer Lippincott Williams & Wilkins.
- Leung LK dan Wang TT. 2000. Bcl-2 is Not Reduced in the Death of MCF-7 cells at Low Genistein Concentration. *The Journal of Nutrition* 130: 2922-2926.
- Levine AJ. 1997. p53, the Cellular Gatekeeper fo Growth and Division. *Cell* 88: 323-331.
- Li Y, Ahmed F, Ali S, Phillip AP, Kucuk O, Sarkar FH. 2005. Inactivation of Nuclear Factor KB by Soy Isoflavone Genistein Contributes to Increased Apoptosis Induced by Chemotherapeutic Agents in Human Cancer Cells. *Cancer Research* 65(15): 6934-6942.
- Lieschke GJ dan Currie PD. 2007. Animal Models of Human Disease: Zebrafish Swim into View. *Nature Reviews: Genetics* 8: 353-367.
- Livak JK dan Schmittgen TD. 2001. Analysis of Relative Gene Expression Data Using Real-Time Quantitative PCR and the $2^{-\Delta\Delta C_T}$ Method. *Methods* (25): 402-408.
- Lu Z dan DeSmidt AA. 2013. Early Development of Hearing in Zebrafish. *Journal of The Association for Research in Otolaryngology* 14: 509-521.
- Messina M, Nagata C, dan Wu AH. 2009. Estimated Asian Adult Soy Protein and Isoflavones Intake. *Nutrition and Cancer* 55(1): 1-12.
- Mihara M, Erster S, Zaika A, Oleksi P, Chittenden P, Pancoska P, Moll UM. 2003. p53 Has a Direct Apoptogenic Role at The Mitochondria. *Molecular Cell* 11: 577-590.

- Nagata S. 2011. *Encyclopedic Reference of Cancer*. 3rd ed. Editor Manfred Schwab. Springer Berlin Heidelberg. Heidelberg, hal. 73-77.
- Ni'mah RJ. 2008. Kadar Genistein dan Daidzein pada Kedelai, Ampas Tahu, dan Oncom Merah. *Skripsi*. Fakultas Matematika dan Ilmu Pengetahuan Alam Institut Pertanian Bogor (IPB), Bogor.
- Pawiroharsono S. 1994. Prospek dan Manfaat Isoflavon untuk Kesehatan. Direktorat Teknologi Bioindustri, Badan Pengkajian dan Penerapan Teknologi.
- Pearce JMS. 2008. Apoptosis. *European Neurology* 60: 112.
- Pilsakova L. 2010. The Physiological Actions of Isoflavone Phytoestrogens. *Physiological Research* (59): 651-664.
- Pramulawati DA. 2013. *Pengaruh Perbedaan Waktu Paparan Geistein terhadap Frekuensi Denyut Jantung Zebrafish (Danio rerio) pada Tahap Awal Perkembangan*. Tugas Akhir. Tidak diterbitkan, Fakultas Kedokteran Universitas Brawijaya, Malang.
- Pype C, Verbueken E, Saad MA, Casteleyn MA, Van Ginneven CJ, Knappen D, Van Crutchen SJ. 2015. Incubation at 32,5 °C and Above Causes Malformation in The Zebrafish Embryo. *Reproductive Toxicology* 56: 56-63.
- Reed JC dan Yip KW. 2008. Bcl-2 Family Proteins and Cancer. *Oncogene* 27: 6398-6406.
- Ruggiero M. 2011. *Encyclopedic Reference of Cancer*. 3rd ed. Editor Manfred Schwab. Springer Berlin Heidelberg. Heidelberg, hal. 98-101.
- Rusin A dan Krawczyk Z. 2011. Genistein Derivatization – From a Dietary Supplement to a Pharmaceutical Agent. *Soybean and Health*. Editor Hany El-Shemy. InTech. Rijeka.
- Sarkar FH dan Li Y. 2002. Mechanisms of Cancer Chemoprevention by Soy Isoflavone Genistein. *Cancer and Metastasis Reviews* 21: 265-280.
- Sassi-Messai S, Gibert Y, Bernard B, Nishio SI, Lagneau KFF, Molina J, Anderssom-Lendahl M, Benoit G, Balaguer P, Laudet V. 2009. The Phytoestrogen genistein Affects Zebrafish Development through Two Different Pathways. *PLoS ONE* 4 (3): e4395.
- Septabian. 2015. *Pengaruh paparan genistein terhadap ekspresi Bax pada tahap perkembangan awal embrio zebrafish*. Tugas Akhir. Tidak diterbitkan, Fakultas Kedokteran Universitas Brawijaya, Malang.
- Viatour P, Alj MB, Chariot A, Deregowski V, De Leval L, Merville MP, Bours M. 2003. NF-KB2/p100 induces Bcl-2 Expression. *Leukimia* (17): 1349-1356.
- Yang B, Johnson TS, Thomas GL, Watson PF, Wagner B, Furness PN, El Nahas AM. 2002. A Ahift in The Bax/Bcl-2 Balance May Activate Caspase-3 and Modulate Apoptosis in Experimental Glomerulonephritis. *Kidney International* 61: 1301-1313.

Xing L, Xu Y, Xiao Y, Shang L, Liu R, Wei X, Jiang J, dan Hao W. 2010. Embryotoxic and teratogenic effects of the combination of bisphenol A and genistein on in vitro cultured postimplantation rat embryos. *Toxicological Sciences* 115 (2): 577.

