



DAFTAR PUSTAKA

- Afrilliani, D.A., Supriyanta, B., Rahayu, M. 2014. Pengaruh Pemberian Rebusan Daun Salam (*Eugenia polyantha* Wight.) Terhadap Kadar Kolesterol Low Density Lipoprotein (LDL) Serum Tikus Putih (*Rattus norvegicus*) Hiperkolesterolemia. *Jurnal Teknologi Laboraturium* 3(2) : 1-6.
- Anderson R.A., Khan A., Zanman G. 2009. Bay Leaves Improve Glucose and Lipid Profile of People With Type Diabetes. *Journal of Clinical Biochemistry and Nutrition* 44 (12) : 52-6
- Anderson, J. L., Carten, J. D. and S. A. Farber. 2011. Zebrafish lipid metabolism: from mediating early patterning to the metabolism of dietary fat and cholesterol. *Methods Cell Biol* 101: 111-141.
- Arunachalam,M., Raja, M., Vijayakumar, C., Malaiammal, P., Mayden, R.L. 2013. Natural history of zebrafish (*Danio rerio* Hamilton,1822) in India. *Zebrafish* 10 (1): 1–14. doi:10.1089/zeb.2012.0803
- Barman, R. P. 1991. A taxonomic revision of the Indo-Burmese species of *Danio rerio*. *Record of the Zoological Survey of India Occasional Papers* 137 : 1-91.
- Basu, S. and C. Sachidanandan. 2013. Zebrafish: A Multifaceted Tool for Chemical Biologists. *Chemical Review, A-AC*, 1-29.
- Braunbeck, T. and E. Lammer. 2005. *Fish Embryo Toxicity Assays*. University of Heilderbeg. Heidelberg.
- Chen, K., Wang, C. Q., Fan, Y., Xie, Y.S., Yim, Z.F., Xu, Z.J., Zhang, H.L., Cao, J.T., Han, Z.H., Wang, Y. and D.Q. Song. 2015. Optimizing Methods For The Study of Intravascular Lipid Metabolism in Zebrafish. *Molecular Medicine Reports* 11: 1871 – 1876.
- D'Costa,A. and I.T. Shepherd. 2009. Zebrafish Development and Genetics: Introducing Undergraduates to Developmental Biology and Genetics in a Large Introductory Laboratory Class. *Zebrafish* 6(2) : 169-177.
- Dahm, R. 2006. The Zebrafish Exposed. *American Scientist* 94 (5): 446–53. doi:10.1511/2006.61.446
- Dalimarta, S. 2000. *Atlas Tumbuhan Obat Indonesia Jilid 2*. Tribus Agriwidya. Jakarta. p.162-163
- Dalimarta, S. 2005. *Tanaman Obat di Lingkungan Sekitar*. Puspa Swara. Jakarta. p.39
- de Guzman, C. C., Siemonsma, J. S. 1999. *Spices. PROSEA. Plant Resources of*



South-East Asia. Backhuis Publishers. Leiden. ISBN 90–5782–046–3.

Dipiro, J.T. 2005. *Pharmacotherapy: A Patophysiological Approach*. McGraw Hill. New York. p. 429 - 452.

Dooley, K. and L.I. Zon. 2000. Zebrafish: a model system for the study of human disease. *Elsevier Science* 10:252–256

Dorland W.A. 2002. *Kamus Kedokteran Dorland, 24thed*. Huriawati Hartanto, editor. EGC. Jakarta. p.301

Engeszer, R.E., Patterson, L.B., Rao, A.A., Parichy, K.D.M. 2007. Zebrafish in the Wild: A Review of Natural History and New Notes from the Field. *Zebrafish* 4 (1): 21–39. doi:10.1089/zeb.2006.9997

Fadli, Suhaimi, and M. Idris. 2019. Uji Toksisitas Akut Ekstrak Etanol Daun Salam (*Syzygium polyanthum* [Wight] Walp.) dengan Metode BS LT (*Brine Shrimp Lethality Test*). *Medical Sains* 4(1): 35-42.

Fajrin, S.A. and N. Athiroh. 2017. Studi Kadar Lipid Trigliserida pada Tikus Wistar Setelah Pemberian Ekstrak Metanolik Scurrula atropurpurea (Bl.) Dans Secara Subkronik Selama 90 Hari. *BIOSINTROPIS (BIOSCIENCETROPIC)* 3 (2): 24-29.

Fang, L., Liu, C., and Y. I. Miller. 2013. Zebrafish Models of Dyslipidemia: Relevance to Atherosclerosis and Angiogenesis. *Translational Research* 2(1): 1-10.

Febriani, W. 2017. Efek Pemberian Simvastatin Terhadap Kadar Kolesterol Telur Puyuh. *BIOSFER Jurnal Tadris Pendidikan Biologi* 8 (2) : 158-170.

Gilman. 2012. *Goodman and Gilman : Dasar Farmakologi Terapi*. Edisi 10 Vol. 6. ECG Kedokteran. Jakarta. p. 963 – 968.

Guyton , A.C., and Hall, J.E. 1997. *Buku Ajar Fisiologi Kedokteran*. (Setiawan I, Tengadi KA, Santoso A, Penerjemah). Penerbit Buku Kedokteran EGC. Jakarta. p. 1078-1091.

Grundy, S.M., and N.J. Stone. 2019. 2018 American Heart Association/American College of Cardiology Multisociety Guideline on The Management of Blood Chplesterol: Primary Prevention. *JAMA Cardiol* doi:10.1001/jamacardio.2019.0777

Harikumar, K., Althaf,S.A., Kumar, B.K., Ramunaik, M. and C.H. Suvarna. 2013. A Review on Hyperlipidemic. *International Journal of Novel Trends in Pharmaceutical Sciences* 3(4) : 59 – 77.

Hardhani, A. S. 2008. Pengaruh Pemberian Ekstrak Daun Salam (Eugenia



polyantha) terhadap Kadar Trigliserida Serum Tikus Jantan Galur Wistar Hiperlipidemia. *Karya tulis ilmiah*, Fakultas Kedokteran Universitas Diponegoro, Semarang.

Harismah, K. and Chusniatun. 2016. Pemanfaatan Daun Salam (*Eugenia polyantha*) Sebagai Obat Herbal dan Rempah Penyedap Makanan. *WARTA LPM* 19 (2) :110-118.

Havsteen, B.H. 2002. *The Biochemistry and Medical Significance of The Flavonoids*. Elsevier. Department of Biochemistry University of Kiel, Germany. p.202.

Heriyanto, A.G. 2014. Toksisitas Akut Buah Sirih Hutan (*Piper aduncum*) terhadap Larva Udang (*Artemia salina*) dan Embrio Ikan Zebra (*Danio rerio*). *Skripsi*. Institut Pertanian Bogor.

Hölttä-Vuori, M.1., Salo, V.T., Nyberg, L., Brackmann, C., Enejder, A., Panula, P., Ikonen, E. 2010. Zebrafish: gaining popularity in lipid research (Review). *Biochem J* 429: 235-242.

[ITIS] Integrated Taxonomic Information System. 2011. *Danio rerio* Hamilton, 1822 (Hamilton, 1922). https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=163699#null

Kari, G., Rodeck, U., and A.P. Dicker. 2007. Zebrafish : An Emerging Model System for Human Disease and Drug Discovery. *Clinical Pharmacology & Therapeutics* 82(1) : 70-80.

Katzung, B.G. 2010. *Farmakologi Dasar dan Klinik*. Edisi X. EGC. Jakarta. p. 575-588.

Kloppenburg-Versteegh, J. 1983. *Petunjuk Lengkap Mengenai Tanaman-tanaman di Indonesia dan Khasiatnya sebagai Obat-obatan Tradisional*. Yayasan Dana Sejahtera. Yogyakarta.

Ismail, A and W.A.N. Wan Ahmad. 2019. *Syzygium polyanthum* (Wight) Walp: A Potential Phytomedicine. *Pharmacogn J* 11(2): 429-438.

Landgraf, K., Schuster, S., Meusel, A., Garten, A., Riemer, T., Schleinitz, D., Kiess, W., and A. Körner. 2017. Short-term Overfeeding of Zebrafish with Normal or High-Fat Diet as a Model for the Development of Metabolically Healthy Versus Unhealthy Obesity. *BMC Physiology* 17 (4) : 1-10.

Liang, J., Jin, W., Li, H., Liu, H., Huang, Y., Shan, X., Li,C., Shan, L. and T. Efferth. 2016. In Vivo Cardiotoxicity Induced by Sodium Aescinate in Zebrafish Larvae. *Molecules* 21: 190 – 200.



- Liu, C., Kim, Y.S., Kim, J., Pattison, J. Kamaid., an Y.I. Miller. 2018. Modelling Hypercholesterolemia and Vascular Lipid Accumulation in LDL Receptors Mutant Zebrafish. *Journal of Lipid Research* 59:391 – 399.
- Littleton, R.M. and J.R. Hove. 2013. Zebrafish: A Nontraditional Model of Traditional Medicine. *Journal of Ethnopharmacology* 145: 677-685.
- Meinelt, T., Schulz, C., Wirth, M., Kurzinger, H. and C. Steinberg. 1999. Dietary Fatty Acid Composition Influences The Fertilization Rate of Zebrafish (*Danio rerio* Hamilton-Buchanan). *Journal of Applied Ichthyology* 15(1) : 19-23.
- Miyares, R. L., Vitor, B., de Rezende and S.A. Farber. 2014. Zebrafish Yolk Lipid Processing: A Tractable Tool for The Study of Vertebrate Lipid Transport and Metabolism. *Disease Models & Mechanisms* 7 :915-927.
- Muflikhatur S.R., Murwani, H.R. 2014. Perbedaan Pengaruh Antara Ekstrak dan Rebusan Daun Salam (*Eugenia polyantha*) Dalam Pencegahan Peningkatan Kadar Kolesterol Total Pada Tikus Sprague Dawley. *Journal of Nutrition College* 3(1): 142-149.
- Murray, R.K., Granner. D.R, Rodwell. V.W. 2009. *Biokimia Harper* (Brahm U. penerjemah). Pernerbit Buku Kedokteran ECG. Jakarta. p. 128-137,217-246.
- Moghadasian, M.H. 1999. Clinical Pharmacology Of 3-hydroxy-3-methylglutaryl coenzyme A Reductase Inhibitors. *Life Sci* 65(13): 1329-37.
- Narita. E.A.R. 2015. Bay Leaf in Dyslipidemia Therapy. *J MAJORITY* , 4(4) : 65-69.
- Nishio, S., Gibert, Y., Berekelya, L., Bernard, L., Brunet, F., Guillot, E., Le Bail, J.C., Sanchez, J.A., Galzin, A.M., Triqueneaux, G. and V. Laudet. 2012. Fasting induces CART down-regulation in the zebrafish nervous system in a cannabinoid receptor 1-dependent manner. *Mol Endocrinol* 26: 1316-1326.
- Nistiar, F., Racz, O., Lukacinaova, A., Hubkova, B., Novakova, J., Lovasova, E. and Sedlakova, E. 2012. Age dependency on some physiological and biochemical parameters of male Wistar rats in controlled environment. *Journal of Environmental Science and Health Part A* 47 (9) : 1224-1233.
- Nusslein-Volhard, C. and R. Dahm. 2002. *Zebrafish*. Oxford University Press. Oxford.
- Oxford University. 2005. *Oxford Textbook of Medicine (4th ed.)*. Oxford university Press. New York.
- Parichy, D.M. 2006. Evolution of danio pigment pattern development. *Heredity* 97: 200-210.



Prahastuti,S. Tjahjani,S., Hartini, E. 2011. Efek Infusa Daun Salam (*Syzygium polyanthum* (Wight) Walp) Terhadap Penurunan Kadar Kolesterol Total Darah Tikus Model Dislipidemia Galur Wistar. *Jurnal Medika Planta* 1 (4) : 28-32.

Price, S.A., and L.M Wilson. 2006. *Patofisiologi: Konsep Klinis Proses-Proses Penyakit* (edisi 6) (Brahm U. Pendit Penerjemah.). Penerbit Buku Kedokteran EGC. Jakarta. 585-588.

Polychronopoulos, E.P., Demosthenes, B. dan P. Anna. 2005. Diet, Lifestyle factors and hypercholesterolemia in elderly men and women from Cyprus. *Journal of Lipids Health Disease* 4(17) :1-7.

Putra, S.H.J., Saraswati, T.R., and S. Isdadiyanto. 2016. Kadar Kolesterol Kuning Telur dan Daging Puyuh Jepang (*Coturnix-coturnix japonica* L.) Setelah Pemberian Suplemen Serbuk Kunyit (*Curcuma longa* L.). *Buletin Anatomi dan Fisiologi* 24(1):108-114.

Rang, H.P., Hill, R.G. 2013. *Drug Discovery and Development (Second Edition)*. Elsevier. New York. p.211

Riset Kesehatan Dasar (Risikesdas). 2007. Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI., p. 115.

Riset Kesehatan Dasar (Risikesdas). 2013. Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan RI. p. 92, 259-260.

Schilling, T.F. 2002. *Zebrafish: A practical approach*. Oxford University Press. New York.

Schlegel, A., and D.Y.R. Stainier. 2006. Microsomal triglyceride transfer protein is required for yolk lipid utilization and absorption of dietary lipids in zebra fish larvae. *Biochemistry* 45: 15179 –15187.

Schlombs, K., Wagner, T., and J. Scheel. 2003. Site-1 protease is required for cartilage development in zebra fish. *Proceedings of the National Academy of Sciences of the United States of America* 100 :14024 –14029.

Sentosa, M. Saraswati, T. R., and S. Tama. 2017. Kadar Low Density Lipoprotein (LDL) Kuning Telur Puyuh Jepang (*Cortunix-cortunix japonica* L.) Setelah Pemberian Tepung Kunyit (*Curcuma longa* L.) pada Pakan. *Buletin Anatomi dan Fisiologi*, 2(1) : 94 – 98.

Seth, A., Stemple, D.L., and I. Barroso. 2013. The Emerging Uses of Zebrafish to Model Metabolic Disease. *Disease Models & Mechanism* 6 : 10801088.

Spence, R., Gerlach, G., Lawrence, C., Smith, C. 2008. The behaviour and ecology of the zebrafish, *Danio rerio*. *Biological Reviews of the Cambridge*



UNIVERSITAS
GADJAH MADA

Pengaruh Ekstrak Daun Salam (*Syzygium polyanthum* [Wight.] Walp) pada Ikan Zebra (*Danio rerio* Hamilton, 1822) Hiperlipidemia

AFIFAH NURUL FAJRI, Dr.biol.hom. Nastiti Wijayanti, S.Si., M.Si.

Universitas Gadjah Mada, 2020 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Philosophical Society 83 (1): 13–34. doi:10.1111/j.1469-185X.2007.00030

Sullivan, S. and C.H. Kim. 2008. Zebrafish as a Model for Infectious Disease and Immune Function. *Fish & Shellfish Immunology* 25. 341-350.

Tjitrosoepomo, G. 1991. *Taksonomi Tumbuhan (Spermatophyta)*. Cetakan ke-3. Gadjahmada University Press. Yogyakarta. 132-136.

Utami, P., Puspaningtyas, D.E. 2013. *The miracle of herbs*. Jakarta. AgroMedia Pustaka. p 61-3.

Wartini, N.M. 2009. Senyawa Penyusun Ekstrak Flavor Daun Salam (*Eugenia polyantha* Wight) Hasil Distilasi Uap Menggunakan Pelarut n-Heksana dan Tanpa n-Heksana. *Agrotekno* 15(2): 72- 77.

Wei, H., Yue, S., Zhang, S., and L. Liu. 2018. Lipid-Lowering Effect of the *Pleurotus eryngii* (King Oyster Mushroom) Polysaccharide from Solid-State Fermentation on Both Macrophage-Derived From Cells and Zebrafish Models. *Polymers* 10 (492) :1-11.

Westerfield, M. 2007. *The Zebrafish Book: A Guide for the Laboratory Use of Zebrafish* (*Danio rerio* Hamilton,1822). University of Oregon Press.Oregon. p. 200

Wilapangga, A., and S. Syaputra. 2018. Analisi Antibakteri Metode Agar Cakram dan Uji BS LT (*Brine Shrimp Lethality Test*) dari Ekstrak Metanol Daun Salam (*Eugenia polyantha*). *IJOBB* 2(2) :50-56.

Yuniarto, A., Sukandar, E. Y., Fidrianny, I., Crystalia, A. A., and I. K. Adnyana. 2019. Zebrafish Model of Obesity: Relevance to Metabolic Syndrome. *International Journal of Green Pharmacy* 13(2) : 175.

Zhou, J., Xu, Y., Guo, S., and C. Li. 2014. Rapid Analysis of Hypolipidemic Drugs In a Live Zebrafish Assay. *Journal of Pharmacological and Toxicological Methods* JPM-06237: 1-6.