DAFTAR PUSTAKA

Achmadi. 1992. Kimia Kayu. FMIPA, IPB. Bogor.

Agoes, G. 2007. Teknologi Bahan Alam. ITB *Press* Bandung.

Akhdiya, A. 2007. Isolasi Bakteri Penghasil Enzim Protease Alkalin Termostabil Buletin Plasma Nutfah.9 (2): 38 -44.

Anon et al, Sen M.A.T., Kocer M.T, Alp & Erbas 2009. Studies on Growth Marine Microalgae in Batch Cultures : III. *Nannochloropsis oculata*. Asian Journal of Plant Science, 4(6), pp. 642-644.

Antoine, T. 2012. Molecular and biochemical chatarerisation of the electron transport chain of *Plasmodium falciparum*. University of Liverpool.

Antoine T, Fisher N, Amewu R, O'Neill PM, Ward SA, Biagini GA. Rapid kill of malaria parasites by artemisinin and semi-synthetic endoperoxides involves ROS-dependent depolarization of the membrane potential. J Antimicrob Chemother. 2014;69(4):1005-1016.

Arsin, Arsunan, A., 2012. *Malaria di Indonesia Tinjauan Aspek Epidemiologi*. Masagena Press. Makassar

Ashley, E., R. McGready, S. Proux, and F. Nosten. 2005. Malaria (review). *Travel Medicine and Infectious Disease*. 98: 1-15.

Asser Manilal, Joseph Selvin, G. Seghal Kiran, S. Sujith, F.A.S. Feby & A.P. Lipton. 2013. Micro-Algal Lethaly Potentials of Marine Organisms Collected from The Indian Littoral. Intenational Journal of Marine Sciences. Thalassas 29 (2): 59 – 65.

Ati, W., Zaini, N.C., Syafruddin. 2011. Mekamisme dan Aktivitas Anti Malaria dari Senyawa flavonoid yang diisolasi dari Cempedak (*Artocarpus cham – peden*). JBP vol 13, No 2, Mei 2011.

Avitia-D. C, Sierra-Campos E, Betancourt-Conde I, Aguirre-Raudry M, Vázquez-Raygoza A, Luevano-De la Cruz A, et al.2016. Targeting plasmodium metabolism to improve antimalarial drug design. Curr Protein Pept Sci. 17(3):260-274.

Bahl A, Bahl BS. 2011. A Textbook of Organic Chemistry (for B.Sc Students).

New Delhi: S. Chand & Company.

Badan POM RI. 2005. Standardisasi Ekstrak Tumbuhan Obat Indonesia, Salah Satu Tahapan Penting dalam Pengembangan Obat Asli Indonesia. *Info POM*, 6 (4), 1-5.

Badan POM RI. 2006. Monografi Ekstrak Tumbuhan Obat Indonesia, Jilid 2.*Direktorat Standarisasi Obat Tradisional, Kosmetik, dan Produk Komplemen. Jakarta.*

Baldwin J, Farajallah AM, Malmquist NA, Rathod PK, Phillips MA.2002. Malarial dihydroorotate dehydrogenase. Substrate and inhibitor specificity. J Biol Chem. 277(44):41827-41834

Baldwin J, Michnoff CH, Malmquist NA, White J, Roth MG, Rathod PK, et al. 2005.High-throughput screening for potent and selective inhibitors of Plasmodium falciparum dihydroorotate dehydrogenase. J Biol Chem. 2005;280(23):21847-21853.

Basir, A. 2013. Aktivitas Antimalaria Ekstrak teripang keling (*Holotruria atra*) Terhadap *Plasmodium falciparum* secara Invitro. Respiratory. Ipb. ac. id. 0066-4804/06/$08.000 doi:10.1128/AAC.50.5.1841–1851.

Bernauer,U.Dr., Bodin,L. Dr., Dr. L. Celleno, Prof. Q. Chaudhry, Prof. P.J.Coen raads , Prof. M.Dusinska, Prof. J. Duus-Johansen, Dr. E. Ezendam, Dr. E. Gaffet, Prof. C. L. Galli, Dr. B. Granum, Dr. E. Panteri, Prof. V. Rogiers, Dr. Ch. Rousselle, Dr. M. Stepnik, Prof.T. Vanhaecke, Dr. S.Wijnhoven. 2016. Opinion of the Scientific Committee on Consumer Safety (SCCS) - Final version of the opinion on decamethylcyclopentasiloxane (cyclopen tasiloxane, D5) in cosmetic products. Elsevier Inc. All rights reserved. Regulatory Toxicology and Pharmacology 83 (2017) 117-118. http://dx.doi.org/10.1016/j.yrtph.2016.11.0160273-2300/

Biagini GA, Viriyavejakul P, O'Neill PM, Bray PG, Ward SA. 2006. Functional characterization and target validation of alternative complex I of Plasmodium falciparum mitochondria. Antimicrob Agents Chemother. 50(5):1841–51. https://doi.org/10.1128/AAC.50.5.1841-1851.2006 PMID: 16641458 .

Biagini GA, Fisher N, Shone AE, Mubaraki MA, Srivastava A, Hill A, et al. 2012.Generation of quinolone antimalarials targeting the Plasmodium falciparum mitochondrial respiratory chain for the treatment and prophylaxis of malaria. Proc Natl Acad Sci USA. 2012;109(21):8298-8303.

Biotech Center, Agency for The Assessment and Application of Technology Technical Note "Exploration Screening of Active antimalarial Compounds from Microbe using the PfMQO enzyme, Instruction Sheet No: TN-01.01/ES-2.1.1/SATREP/06/2018 dated June 6, 2018.

Blinkova, L.P.; Gorobets, O.B.; Baturo, A.P. 2001. Biological activity of *Spirulina* (in Russian). Zhur. Mikrobiol. Epidemiol. Immunobiol. 5, 114–118.

Bloland,P., E. Lackritz, P. Kazembe, J. Were, R.Steketee, and C. Cambell, J. 1993. Infectious Diseases. 167.932.

Boa A.N., Canavan SP, Hirst PR, Ramsey C, Stead AM, McConkey GA. Synthesis of brequinar analogue inhibitors of malaria parasite dihydroorotate dehydrogenase. Bioorg Med Chem. 2005;13(6):1945-1967.

Boysen KE, Matuschewski K. Arrested oocyst maturation in Plasmodium parasites lack-ing type II NADH:ubiquinone dehydrogenase. J Biol Chem. 2011;286(37):32661-32671.

Borowitzka, M. A.1995. Microalgae as source of pharmaceuticals and other biologically active compounds. J. Appl. Phycol. 7: 3–15.

Brown, M.R. 2002. Nutritional Value of Mikroalga for Aquakultur, In: Cruz-Suarez, L.E., Ricque-Marie, D., Tapia-Salazar, M., Gaxiola-Cortes, M. G., Simoes, N. (Eds.). Avances en Nutricion Acuicola VI. *Memorias del VI Simposium Internacional de NutricionAcuicola*. Mexico: Cancun, Quintana Roo.

Browning, K.S., RajBhandary, U.L. 1982. Cythochrome Oxidase Subunit III Gene in Neurospora Crassa Mitochondrial : Location and Sequence,. *J Biol Chem*.

Budiyanto. 2013. *Pengertian Proses Siklus Krebs (Siklus Asam Sitrat).* http://budisma.web.id/pengertian-proses-siklus-krebs-siklus-asam sitrat.html

Bulusu. V., V. Jayaraman, H. Balaram, Metabolic fate of fumarate, a side product of the purine salvage pathway in the intraerythrocytic stages of Plasmodium falciparum, J. Biol. Chem. 286 (11) (2011) 9236–9245, http://dx.doi.org/10.1074/jbc. M110.173328 (PubMed PMID: 21209090; PubMed CentralPMCID: PMCPMC3059058).

Burja AM, Banaigs EB, Abou-Mansour, Burges JG, Wright PC. 2001. Marine Cyanobacteria-a prolific source of Natural Products. Tetrahedron 57 : 9347 – 9377

Campanella L, Cubadda F, Smmartino MP, Saoncella A. 2000. An algal biosensor for the monitoring of water toxicity in estuarine environments. Water Res. 25: 69-76.

Carlucci MJ, Scolaro LA, Damonte EB. 1999. Inhibitory action of Natural carrageenans on Herpes simplex virus infection of mouse astrocytes. Chemotherapy 45 (6): 429-36.

Carrington HC, Crowther AF, Davey DG, Levi AA, Rose FL. A metabolite of paludrine with high antimalarial activity. Nature. 1951;168(4288):1080.

Chalid, S.Y., Sri, A., & Suci, D.L., 2010. Kultivasi *Chlorella vulgaris* pada Medium Tumbuh yang Diperkaya dengan Pupuk Anorganik dan Soil Extract. Laporan Penelitian. Jakarta: Balai Besar Riset Pengolahan Produk dan Bioteknologi Kelautan dan Perikanan (BBRPPBKP).

Choi, H.J., Rho C.M., C.H. , Lee, W.S. , Kwon,E.O., Park,R.H.,Kang, Y.J., H.S.,

Lee, S.H., Bae, H.K.,Kima, K.Y. 2006. Glabrol, an acyl-coenzyme A: Cholesterol acyltransferase inhibitor from licorice roots. Bentham Science Publisher. Volume 110, Issue 3, 4 April 2007, Pages 563-566. https://doi.org/10.2174/157340641566619020623344 8

Chuang, P, Lee, C, Chou, J, Murugan, M, Shieh, B & Chen, H, 2007, 'Anti-fungal Activity of Crude Extracts and Essential Oil of *Moringa oleifera* Lam.', *Bioresource Techonology*, vol. 98, pp. 232-236

Couto, A. S., E. A. Kimura, V. J. Peres, M. L. Uhrig, and A. M. Katzin. 1999. Active isoprenoid pathway in the intra-erythrocytic stages of *Plasmodium falciparum*: presence of dolichols of 11 and 12 isoprene units. *Biochem. J.* 341:629–637.

Crowther AF, Levi AA. Proguanil, the isolation of a metabolite with high antimalarial activity. Br J Pharmacol Chemother. 1953;8(1):93-97

Cui L, Su XZ. Discovery, mechanisms of action and combination therapy of artemisinin. Expert Rev Anti Infect Ther. 2009;7(8):999-1013.

Dar, SA, Yousuf, AR, Ganai, FA, Sharma, P, Kumar, N & Singh, R, 2012, 'Bioassay Guided Isolation and Identification of Anti-inflammatory and Anti-microbial Compounds From *Urtica dioica* L. Leaves', *African Journal of Biotechnology*, vol. 11, no. 65, pp. 12.910-12.920

David A.F, Roshenthal, Croft L.S, Brun Reto dan Nwaka Solomon, 2004,

Antimalarial Drug Discovery: Efficacy Model For Compound screening, Nature review drug Discovery Volume 3 hal.509

D.Agarwal,M.Sharma,S.K. Dixit,R.K.Dutta, A.K.Singh, R.D.Gupta,etal.,Invitro synergistic effect of fluoroquinolone analogues in combination with artemisinin against Plasmodium falciparum; their antiplasmodial action in rodent malaria model, Malar. J. 14 (2015) 48, http://dx.doi.org/10.1186/s12936-015-0561-2 (PubMed PMID: 25652883; PubMed Central PMCID: PMCPMC4349624).

De Fretes, H., Susanto, A.B., Prasetyo, B., & Limantara, L., 2012. Karotenoid dari Makroalgae dan Mikroalgae: Potensi Kesehatan Aplikasi dan Bioteknologi. Jurnal Teknologi dan Industri Pangan, 23(2), pp.221-228.

De Macedo, C. S., M. L. Uhrig, E. A. Kimura, and A. M. Katzin. 2002. Characterization of the isoprenoid chain of coenzyme Q in *Plasmodium falciparum. FEMS Microbiol. Lett.* 207:13–20.

Departemen Kesehatan Republik Indonesia. 1986. Sediaan Galenik. Jakarta : Direktorat Jenderal Pengawas Obat dan Makanan.

Depkes RI. 1995. Farmakope Indonesia. Departemen Kesehatan Republik Indonesia, Jakarta., IV, 7.

Depkes RI. 2000. Parameter Stadar Umum Ekstrak Tumbuhan Obat. *Departemen Kesehatan Republik Indonesia, Direktorat pengawasan Obat Tradisional, Jakarta.,* 1, 1-38.

Depkes RI. 2008. Farmakope Herbal Indonesia. *Departemen Kesehatan Republik Indonesia, Jakarta,* 1, 124.

_____. 2006. *Pedoman Pemberantasan Vektor*. Jakarta: Departemen Kesehatan Republik Indonesia Direktorat Jenderal Pengendalian Penyakit dan Penyehatan Lingkungan.

_____. 2008. *Pedoman Penatalaksanaan Kasus Malaria di Indonesia*. Jakarta: Dirjen PP & PL.

Desjardins, R. E., C. J. Canfield, J. D. Haynes, and J. D. Chulay. 1979. Quantitative assessment of antimalarial activity in vitro by a semiautomated microdilution technique. *Antimicrob Agents Chemother*. 16: 710–718. Pada Tanaman di Indonesia

Devi, A.P. 2013. Penapisan Fitokimia dan Aktivitas Anti Malaria In Vitro dengan Metode Pengukuran HBP II. Respiratory. Unair. ac. id.

Dewick, P. M. 1999. The biosynthesis of C5–C25 terpenoid compounds. *Nat. Prod. Rep.* 16: 97–130.

Dhal K.N., and C.S. Sudam., 2012. Aglicultural and Biological Sciences "Plant Science" book. ISBN 978-953-51-0905-1, Published: September 17, 2012 under CCBY 3.0 license

Dmitrovic, S, Perisic, M, Stojic, A & Misic, D, 2015, 'Essential Oils of Two Nepeta Species Inhibit Growth and Induce Oxidative Stress in Ragweed (*Ambrosia artemisiifolia* L.) Shoots in vitro', *Journal Acta Physiologiae Plantarum*, vol. 37, no. 3, pp. 64

Dong CK, Patel V, Yang JC, Dvorin JD, Duraisingh MT, Clardy J, et al. Type II NADH dehydrogenase of the respiratory chain of Plasmodium falciparumand its inhibitors. Bioorg Med Chem Lett. 2009;19(3):972-975.

Duke's, Dr. 2016. Phytochemical and Ethnobotanical Databases. (dataset) U.S.

Department of Agriculture, Agricultural Research Service. 1992-2016. Home Page, https://phytochem.nal.usda.gov/

Eggleson, K.K., Duffin, K.L. & Goldberg, D.E. 1999. Identification and characterization of falcilysin, a metallopeptidase involved in hemoglobin catabolism within the malaria parasite *Plasmodium falciparum*, J. Biol. Chem., 274 (45): 32411-32417.

Ernest, P., 2012. Pengaruh Kandungan Ion Nitrat terhadap Pertumbuhan Nannochloropsis sp. Skripsi Fakultas Teknik Universitas Indonesia.

Field CB, Behrenfeld MJ, Randerson JT, Falkowski P. 2007. Primary production of the biosphere: integrating terrestrial and oceanic components. Science 281: 237-240.

Fitch CD. Ferriprotoporphyrin IX, phospholipids, and the antimalarial actions of quinoline drugs. Life Sci. 2004;74(16):1957-1972

Fisher N, Bray PG, Ward SA, Biagini GA. The malaria parasite type II

NADH:quinone oxidoreductase: an alternative enzyme for an alternative lifestyle. Trends Parasitol. 2007;23(7):305-310.

Fry M, Pudney M. Site of action of the antimalarial hydroxynaphthoquinone, 2-[trans-4-(4'-chlorophenyl) cyclohexyl]-3-hydroxy-1,4-naphthoquinone (566C80). Biochemical Pharmacology. 1992;43(7):1545-1553.

Fujitani, N.; Sakari, S.; Yamagushi, Y.; Takenaka, H. Inhibitory effects of micro-algae on activation of hyaluronidase. J. Appl. Phycol. 2001, 13, 489–492.

Gardner, M. J., N. Hall, E. Fung, O. White, and M. Berriman. 2002. Genome Sequence of the Human Malaria Parasite *Plasmodium falciparum*. *Nature* 419: 498-511.

Gershenzon, J & Dudareva, N, 2007, 'The Function of Terpen Natural Products in the Natural World',*Nature Chemical Biology*, vol. 5, no.3, pp. 408-414

Gessler, M.C., M.H.N. Nkunya, L.B. Mwasumbi, M. Heinrich, and M. Toner. 1994. Screening Tanzanian Medical Plants for Antimalarial Activity. Acta.Trop. 56: 65-77.

Giancarlo A. Biagini, Parnpen Viriyavejakul, Paul M. O'Neill Antimikrobial Agents and Chemotheraphy, May 2006, p. 1841–1851 Vol. 50, No. 5 0066-4804/06/$08.000 doi:10.1128/AAC.50.5.1841–1851.

Glabrol PubMed. 1980. Antimicrobial agents from higher plants. Antimicrobial isoflavonoids and related substances from Glysyrrhiza glabra L. var typica. PMID 7381508. Journal of natural productsn1980; 43 (2):259-269.

https://www.ncbi.nlm.nih.gov/pubmed/20022509. Phenolics from Glycyrrhiza glabra roots and their PPAR-gamma ligand-binding activity. PMID 20022509; Bioorganic & medicinal chemistry 2010 Jan;18(2):962-970

Goh, S., F. Md. Yusoff, and S. Loh. 2010. A Comparison of the Antioxidant Properties and Total Phenolic Content in a Diatom, *Chaetoceros* sp. and a Green Microalga, *Nannochloropsis* sp. *Journal of Agricultural Science*. 2 (3): 123-130.

Goulart , H. R., Emilia A. K., Valnice J. P., Alicia S. C., Fulgencio A. A. D., & 2004. Alejandro M. K., 2004. Terpenes Arrest Parasite Development and Inhibit Biosynthesis of Isoprenoids in *Plasmodium falciparum*. Antimicrobial Agents and Chemotherapy. 48(7), pp 2502-2509.

Grueneberg DA, Degot S, Pearlberg J, Li W, Davies JE, Baldwin A, et al. 2008. Kinase requirements in human cells: I. Comparing kinase requirements across various cell types. Proc Natl Acad Sci U S A. 2008;105(43):16472-16477.

Gunawan, D.d. M., S. 2010. Ilmu Obat Alam (Farmakognosi). *Penebar Swadaya, Jakarta.*, 1.

Guzman, S.; Gato, A.; Calleja, J.M. Anti-Inflammatory, analgesic and free radical scavenging activities of the marine microalgae *Chlorella stigmatophora* and *Phaeodactylum tricornutum*. Phytother. Res. 2001, 15, 224–2

Hayati, E. K., Akyunul, J., & Rachmawati, N., 2012. Identifikasi Senyawa Dan Aktivitas Antimalaria In Vivo Ekstrak Etil Asetat Tanaman Anting-Anting (Acalypha indica L.). Jurnal Molekul, 7(1), pp. 20-32.

Harada.S., D.K. Inaoka, J. Ohmori, K. Kita, Diversity of parasite complex II, Biochim. Biophys. Acta 1827 (5) (2013) 658–667, http://dx.doi.org/10.1016/j.bbabio.2013.01.005 (PubMed PMID: 23333273).

Harijanto, 2000. Malaria: Epidemiologi, Patogenesis, Manifestasi Klinis & Penanganan. Jakarta: EGC.

Herrmann, M.L., R. Schleyerbach , B.J. Kirschbaum.2000. Leflunomide: an imunomodulatory drug for the treatment of rheumatoid arthritis and other autoimmune diseases. Immunopharmacology. 2000;47(2-3):273-289.

Hartuti, E.D., D.K. Inaokac, K.Komatsuyac, Y. Miyazakic, R. J. Millerc, W. Xinying, M. Sadikine, E. E. Prabandari, D. Waluyo, M. Kuroda, E. Amalia, Y. Matsuo, N.B.Nugroho, H. Saimoto, A. Pramisandi, Y.I Watanabe, M.Mori, K. Shiomi, E.O.Balogun, T.Shiba, S. Harada, T.Nozaki, K. Kita. 2018. Biochemical studies of membrane bound *Plasmodium falciparum* mitochondrial L-malate:quinone oxidoreductase, a potential drug target. BBA-Bioenergetic 1859 (2018) 191 – 200.

http://infeksi.wordpress.com/2009/05/06/malaria/. Akses 23 Januari 2015.

http://www.asien.net/gesundheit/malaria.Malaria : Symtome, Implung, Behanlung Schutz. Diakses 17 April 2018.

Herrmann ML, Schleyerbach R, Kirschbaum BJ.2000. Leflunomide: an immuno - modulatory drug for the treatment of rheumatoid arthritis and other autoimmune diseases. Immunopharmacology. 47(2-3):273-289

Herrero,M., Ibanez.E, ACifuentes, G Reglero, S Sanyoyo. 2006. Dunaliella salina microalga pressurized liquid extracts as potential antimicrobeials. J. Food Protection. 6924712477.

Inaoka. D.K., T. Shiba, D. Sato, E.O. Balogun, T. Sasaki, M. Nagahama, etal. 2015. Structural insights into the molecular design of flutolanil derivatives targeted for fumarate respiration of parasite mitochondria, Int. J. Mol. Sci. 16 (7) (2015) 15287–15308, http://dx.doi.org/10.3390/ijms 160715287 (PubMed PMID: 26198225; PubMed Central PMCID: PMCPMC4519900).

Irawan, M.A. 2007. Jurnal Glukosa dan Metabolisme Energi. Volume 01 (2007) No.06.

Isserlin R, Bader GD, Edwards A, Frye S, Willson T, Yu FH. 2011. The human genome and drug discovery after a decade. Roads (still) not taken. arXiv (2011) arXiv:1102.0448

Jordao, F. M., Kimura, E. A., & Katzin, A.M., 2011. Isoprenoid Biosynthesis in the Erythrocytic Stages of Plasmodium falciparum. Mem Inst Oswaldo Cruz, Rio de Janeiro, 106(1), pp. 134-141

Ke.H., I.A. Lewis, J.M. Morrisey, K.J. McLean, S.M. Ganesan, H.J. Painter, et al.,2015. Genetic investigation of tricarboxylic acid metabolism during the Plasmodium falciparum life cycle, Cell Rep. 11 (1) (2015) 164–174, http://dx.doi.org/10.1016/j. celrep.2015.03.011 (PubMed PMID: 25843709; PubMed Central PMCID: PMCPMC4394047).

Ke H, Ganesan SM, Dass S, Morrisey JM,Pou S, Nilsen A, et al. (2019) Mitochon drial type IINADH dehydrogenase of Plasmodium falciparum(PfNDH2) is dispensable in the asexual bloodstages. PLoS ONE 14(4): e0214023. https://doi.org/10.1371/journal.pone.0214023Editor: David J. Sullivan, Jr., Johns Hopkins University Bloomberg School of Public Health, UNITED STATES

Kerscher SJ.2000. Diversity and origin of alternative NADH:ubiquinone Oxidore ductases. Biochim Biophys Acta. 2000;1459(2-3):274-283.

Kuroda. M, Mimaki Y, Honda S, Tanaka H, Yokota S, Mae T. 2009. Phenolics from Glycyrrhiza glabra roots and their PPAR-gamma ligand-binding activity. Bioorg Med Chem. 2010 Jan 15;18(2):962-70. doi:10.1016/j.bmc. 2009.11.027. Epub 2009 Nov 26.

Lehninger, A. 1982. Principle of Biochemistry (Dasar-Dasar biokimia, Jilid 2, Diterjemahkan oleh M. Thenawijaya.1992. Penerbit Erlangga. Jakarta.

Lenny, S, 2006, *Senyawa Terpenoida dan Steroida*, USU Respository

Leonardo, K., Basco.2007. *Field Application of In Vitro Assay for The Sensitivity of Human Malaria Parasites to Antimalarial Drug*. WHO.

Leung SC, Gibbons P, Amewu R, Nixon GL, Pidathala C, Hong W.D. 2012. Identification, design and biological evaluation of heterocyclic quinolones targeting Plasmodium falciparumtype II NADH:quinone oxidoreductase (PfNDH2). J Med Chem.55(5):1844-1857.

Li W, Mo W, Shen D, Sun L, Wang J, Lu S, et al. 2005. Yeast model uncovers dual roles of mitochondria in action of artemisinin. PLoS Genet. 2005;1(3):e36.

Lokke, H & Rasmussen, L, 1983, 'Phytotoxicological Effects of Di-(2-Ethyl Hexyl)-Phthalate and Di-n-Butyl-Phthalate on Higher Plants in Laboratory and Field Experiments', *Enviromental Pollution*, vol. 32, pp. 179-199

Lunev,S., Batista,A.F., Bosch,S.S., Wrenger., C., and Matthew R. Groves. 2016. Identification and Validation of Novel Drug Targets for the Treatment of Plasmodium falciparum Malaria: New Insights.http://dx.doi.org/10.5772/ 65659.

Luttik MA, Overkamp KM, Kotter P, de Vries S, van Dijken JP, Pronk JT. The Saccharomyces cerevisiaeNDE1 and NDE2 genes encode separate mitochondrial NADH dehydrogenases catalyzing the oxidation of cytosolic NADH. J Biol Chem. 1998;273(38):24529-24534.

Jayaraman., V.VBaHB, Crosstalk between purine nucleotide metabolism and mitochondrial pathways in Plasmodium falciparum, Curr. Sci. 2012;102 (5).

Jomaa, H., J. Wiesner, S. Sanderbrand, B. Altincicek, C. Weidemeyer, M. Hintz, I. Turbachova, M. Eberl, J. Zeidler, H. K. Lichtenthaler, D. Soldati, and E. Beck. 1999. Inhibitors of the nonmevalonate pathway of isoprenoid biosynthesis as antimalarial drugs. *Science.* 285: 1573–1576.

Kabinawa. I. N. K. 2001. *Mikroalga Sebagai Sumber Daya Hayati (SDH) Perairan Dalam Perspektif Bioteknologi*. Bogor: Puslitbang Bioteknologi LIPI.

Kementerian Kesehatan. 2011. *Epidemiologi Malaria di Indonesia*. Buletin Jende la Data dan Informasi Kesehatan volume 1. Jakarta.

Kementrian Kesehatan, 2013. Kementerian Kesehatan. *Vektor Malaria dan Cara Pengendaliannya*.http://pppl.depkes.go.id/_asset/_download/Vektor_Malaria_1.pdf. Diakses tanggal 7 Mei 2013.

Ke.H., I.A. Lewis, J.M. Morrisey, K.J. McLean, S.M. Ganesan, H.J. Painter, *et al al*.2015. Genetic investigation of tricarboxylic acid metabolism during the Plasmodium falciparum life cycle, Cell Rep. 11 (1) (2015) 164–174, http://dx.doi.org/10.1016/j. celrep.03.011 (PubMed PMID: 25843709; PubMed Central PMCID: PMCPMC4394047).

Ke, H., Suresh M. Ganesan, Swati Dass, Joanne M. Morrisey, Sovitj Pou2, Aaron Nilsen, Michael K. Riscoe, Michael W. Mather, Akhil B. Vaidya. 2019. Mitochondrial type II NADH dehydrogenase of *Plasmodium falciparum* (PfNDH2) is dispensable in the asexual blood stages PLoS ONE 14(4):e0214023 · April 2019

Klofutar, C., S. Paljk, F.Krasovec, and P. Suhac. 1975. Kem. Ind., 24:361.

Leonardo, K., Basco. 2007. Field Application of In Vitro Assay for The Sensitivity of Human Malaria Parasites to Antimalarial Drugs. WHO.

Leung S.C., Gibbons,P., Amewu, R., Nixon ,G.L., Pidathala, C., Hong, W.D., et al. 2012.Identification, design and biological evaluation of heterocyclic quinolones targeting Plasmodium falciparumtype II NADH:quinone oxidoreductase (PfNDH2). J Med Chem. 55(5):1844-1857.

Limantara. 2010. Studi Komposisi pigmen dan Kandungan Fukosianin Rumput aut coklat dari Perairan Madura dengan Kromatografi Cair Kinerja Tinggi. Ilmu Kelautan Vol 15 (1): 23 – 32.

Lin Y, Kuang Y, Li K, Wang S, Song W, Qiao X, Sabir G, Ye M. 2017.

Screening for bioactive natural products from a 67-compound library of Glycyrrhiza inflata.Bioorg Med Chem. 2017 Jul 15;25(14):3706-3713.

Lunev S, Batista.F.A., Bosch.S.S, Wenger. C and Matthew R. Groves.M.R.G. 2016.Identification and Validation of Novel Drug Targets for the Treatment of Malaria: New Insights. 2016. http://dx.doi.org/10.5772/65659

Lusiana, H., Irawadi, T.T., & Suparto, I.H., 2013. Prosiding Seminar Nasional Kimia Terapan Indonesia. Uji Anti Plasmodium Senyawa Alkaloid dari *Albertisia papuana* Becc. Vol 1, pp.75-78.

Machu, L., Ladislava, M., Jarmila, V.A.,Jana, O., Jiri, M., Jiri, S. and Tunde, J. (2015). Phenolic content and antioxidantcapacity in algal food products. *Molecules*, 20, 1118-1133

Manach, C., Scalbert, A., Morand, C., Rémésy,C., Jiménez, L. (2004). Polyphenols:Food sources and bioavailability. *TheAmerican Journal of Clinical Nutrition,*79, 727–747

Martoharsono, S. 1997. Biokimia Jilid I. UGM Press. Yogyakarta.91.

Marres CA, de Vries S, Grivell LA. 1991. Isolation and inactivation of the nuclear gene encoding the rotenone-insensitive internal NADH: ubiquinone oxidoreductase of mitochondria from Saccharomyces cerevisiae. Eur J Biochem/FEBS.195(3):857-862.

Maruthupandian,A. and V.R. Mohan. 2011. GC-MS analysis of some bioactive constituents of Pterocarpus marsupium Roxb.International Journal of ChemTech ResearchCODEN(USA): IJCRGG ISSN : 0974-4290Vol. 3, No.3, pp 1652-1657, July-Sept 2011.

Maruthanayagam, V., M. Nagarijan, D.M. Khrisnan, D. Sahal, S. Muthuraman. 2014. Aktivitas antiplasmodial ekstrak 25 spesies bacterial dari daerah pesisir Tamil Nadu. Jurnal Biologi Farmasi Vol 52.

Masjuk, N.P. Morphology, Taxonomy, Ecology, Geographical Distribution and Utilization of Dunaliella (in Russian); Naukowa: Kiev, Ukraine, 1973. 16. Findlay, J.A.; Patil, S.D. Ant.

Mather, M.W., Darrouzet, E., Valkova-Valchanova, M., Cooley, J.W., McIntosh ,M.T., Daldal F, et al.2005. Uncovering the molecular mode of action of the antimalarial drug atovaquone using a bacterial system. J Biol Chem. 280(29):27458-27465.

Matsumoto. J., K. Sakamoto, N. Shinjyo, Y. Kido, N. Yamamoto, K. Yagi, et al., 2008. Anaerobic NADH-fumarate reductase system is predominant in the respiratory chain of Echinococcus multilocularis, providing a novel target for the chemotherapy of alveolar echinococcosis, Antimicrob. Agents Chemother. 52 (1) (2008) 164–170, http://dx.doi.org/10.1128/AAC.00378-07 (PubMed PMID: 17954696; PubMed Central PMCID: PMCPMC 2223886.

Mattevi A, Obmolova G, Sokatch JR, Betzel C, Hol WG. The refined crystal structure of Pseudomonas putidalipoamide dehydrogenase complexed with NAD+ at 2.45 A resolution. Proteins. 1992;13(4):336-351.

Mayes, P.A., Granner, D., Rodwell, V., & Martin, D. 1987. Biokimia harper. Darmawan, Penerjemah. Terjemahan dari : Harpers Review of Biochemistry. EGC Penerbit Buku Kedokteran. Jakarta.

Melo AM, Bandeiras TM, Teixeira M. New insights into type II NAD(P)H:quinone oxidoreductases. Microbiol Mol Biol Rev: MMBR. 2004;68(4):603-616.

Mishra RC, Kumari R, Yadav S, Yadav JP. 2019. Target Based Virtual Screening of New Leads Inhibitor against Bacterial Cell Division Protein FtsZ for the Discovery of Antibacterial Agents.Med Chem. 2019 Feb 6. doi: 10.2174/1573406415666190206233448

Mišurcová, L., Stanislav K., Bořivoj, K.and Jan, V. C. (2010). Nitrogen content, dietary fiber, and digestibility. *Journal ofFood Science*, 28(1), 27–35

Mišurcová, L. 2011. Chemical compositionof seaweeds. In *Handbook of marine macroalgae: Biotechnology and applied phycology*; Kim, S.-K., Ed.; John Wiley & Sons: Chichester, UK. 173–192

Mogi T, Matsushita K, Murase Y, Kawahara K, Miyoshi H, Ui H, et al.2009. Identification of new inhibitors for alternative NADH dehydrogenase (NDH-II). FEMS Microbiol Lett. 291(2):157–61. https://doi.org/ 10.1111/j.1574-6968.2008.01451.x PMID: 19076229 .

Mog.T.I., K. Kita,. 2010. Diversity in mitochondrial metabolic pathways in parasitic protists Plasmodium and Cryptosporidium, Parasitol. Int. 59 (3) (2010) 305–312, http://dx. doi.org/10.1016/j.parint.2010.04.005 (PubMed PMID: 20433942).

Molenaar D, van der Rest ME, Petrovic S. 1998. Biochemical and genetic Characterization of the membrane-associated malate dehydrogenase(accep tor) from Corynebacterium glutamicum. Eur J Biochem/FEBS. 1998;254 (2):395-403.Identification and Validation of Novel Drug Targets for the Treatment of Plasmodium falciparum Malaria: New Insights http://dx.doi.org/10.577265659259

Moura, I. C., G. Wunderlich, M. L. Uhrig, A. S. Couto, V. J. Peres, A. M. Katzin, and E. A. Kimura. 2001. Limonene arrests parasite development and inhibits isoprenylation of proteins in *Plasmodium falciparum*. *Antimicrob. Agents Chemother.* 45: 2553–2558.

Muregi FW. 2010. Antimalarial drugs and their useful therapeutic lives: rational. drug design lessons from pleiotropic action of quinolines and artemisinins. Curr Drug Discov Technol. 7(4):280-316

Muhlisin, A., 2015. http://www.mediskus.com. Akses 15 Januari 2015.

Murtihapsari, E. Hasanah. 2010. Potensi Penemuan obat antimalaria baru dari laut Indonesia. Squalen Vol I No.3.

Nigjeh, S. E., F. Md. Yusoff, N. B. M. Alitheen, M. Rasoli, Y. S. Keong, and A. Rahman bin Omar. 2013. Cytotoxic Effect of Ethanol Extract of Microalga, *Chaetoceros calcitrans*, and Its Mechanisms in Inducing Apoptosis in Human Breast Cancer Cell Line. *BioMed Research International*. 2013:1-8.

Niikura.M., K. Komatsuya, S.I. Inoue, R. Matsuda, H. Asahi, D.K. Inaoka, et al. 2017.Suppression of experimental cerebral malaria by disruption of malate:quinone oxidoreductase, Malar. J. 16 (1) (2017) 247, http://dx.doi.org/10.1186/s12936017-1898-5 (PubMed PMID: 28606087; PubMed Central PMCID: PMCPMC5469008).

Nixon GL, Pidathala C, Shone AE, Antoine T, Fisher N, O'Neill PM, et al. 2013. Targeting the mitochondrial electron transport chain of Plasmodium falciparum: New strategies towards the development of improved antimalarials for the elimination era. Future Med Chem.5(13):1573-1591.

Paloque L, Ramadani AP, Mercereau-Puijalon O, Augereau JM, Benoit-Vical F. 2016. Plasmodium falciparum: multifaceted resistance to artemisinins. Malar J. 15(1):149.

Pankaj,P., Mallice, N., Varma. 2010. Invitro antimalarial activity of C. phycosiain from *Nostoc muscorum*. Journal of Life Science 3 (1): 68 -78.

Paradines B, Talla, Prazy, Spiegel A. 1998. Invitro Activity of Phyrohadine and AmodiaquineAgainst African Isolate Senegal of *Plasmodium Falciparum* in Comparison with Standard Antimalarial Agents. Journal of Antimicro – Bio Chemotherapy 42(I) : 333-339.

Patil, P.S, Argade1, Ghule1, R. Venkatnarayanan, P. R. Shinde. 2012. Protective

Effects of Thespesia populnea (L.) Sol ex. Correa in Inflammatory, Nociceptive and Arthritic Conditions on Experimental Animals. India: Institute of Pharmacy Malegaon. 2 (4) : 215-227.

Patrick G. Bray and Stephen A. Ward. 2006. Functional Characterization and Target Validation of AlternativeComplex I of Plasmodium falciparum Mitochondria.2006.https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1472221/pdf/0099-06.pdf

Pelczar,D.C. 2005. Dasar-Dasar Mikrobiologi. UI-Press, Jakarta.

Phillips MA, Lotharius J, Marsh K, White J, Dayan A, White KL, et al. A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. Sci Transl Med. 2015;7(296):296ra111.

Phillips MA, Rathod PK. 2010.Plasmodium dihydroorotate dehydrogenase: a Promising target for novel anti-malarial chemotherapy. Infect Disord Drug Targets. 10(3):226-239

Phillips MA, Lotharius J, Marsh K, White J, Dayan A, White KL, et al. 2015. A longduration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. Sci Transl Med.7(296):296ra111.

Poedjiadi, A.d.S.F.M.T. 2006. Dasar-Dasar Biokimia. Jakarta; Universitas Indonesia Press.

Priyadarshani and Rath. 2012. Bioactive Compounds from microalgae and Cya - nobacteria : Utility and Applications. IJPSR 3 (11) ; 4123 – 4130.

Prudhomme, J., E. Mc Daniel, N. Ponts, S. Bertani, W. Fenical, P. Jansen, and K. Roch. 2008. Marine Acomycetes: A New Source of Coumponds against The Human Malaria Parasite. *Plos One Jour*.3 (6).

Pulz, O.; Gross, W. Valuable products from biotechnology of microalgae. Appl. Microbiol. Biotechnol. 2004, 65, 635–648.

Pusarawati, S., dan I.S. Tantular. 2008. *Diagnostik Mikroskopis Malaria Pewarnaan Giemsa dan Acridine Orange (AO)*.

Purwantiningsih, S. 2003. Artemisinin dari *Artemisia sacrorum*, Leddeb dan Turunannya sebagai Komponen Bioaktif Antimalaria. *Disertasi*. Bogor: Institut Pertanian Bogor.

Putranti, R. I., 2013. Skrining Fitokimia Dan Aktivitas Antioksidan Ekstrak Rumput Laut Sargassum Duplicatum Dan Turbinaria Ornata Dari Jepara. Tesis Fakultas Perikanan Dan Ilmu Kelautan Universitas Diponegoro Semarang.

Putri, W. S., Warditiani, N. K., & Larasanti, L. P. F. 2013. Skrining Fitokimia Ekstrak Etil Asetat Kulit Buah Manggis (Garcinia mangostana L.). Artikel Il

Q.L.Fivelman, I.S. Adagu, D.C.Warhurst. 2004. Modified fixed-ratio isobologram method for studying in vitro interactions between atovaquone and proguanil or dihydroartemisinin against drug-resistant strains of Plasmodium falciparum, Antimicrob. AgentsChemother. 48(11)(2004)4097–4102,http://dx.doi.org/10.1128/AAC.48. 11.4097-4102.2004 (PubMed PMID: 15504827; PubMed Central PMCID: PMCPMC525430).

Raman B.V., L. A. Samuel, M. Pardha Saradhi et al., "Antibacterial, antioxidant activity and GC-MS analysis of Eupatorium odoratum," Asian Journal of Pharmaceutical and Clinical Research, vol. 5, no. 2, pp. 99–106, 2012. View at Google Scholar · View at Scopus

Rao, A.V and L.G. Rao. 2007. Carotemoids: Biology and Treatment. *Pharmacology and Teurapetics.* 75: 15-197

.

Raposo, M.F.J.; Morais, R.M.S.C. *Chlorella vulgaris* as soil amendment: Influence of encapsulation and enrichment with rhizobacteria. Int. J. Agric. Biol. 2011, 13, 719–724.

Raposo, M.F.J.; Oliveira, S.E.; Castro, P.M.; Bandarra, N.M.; Morais, R.M. On the utilization of microalgae for brewery effluent treatment and possible applications of the produced biomass. J. Inst. Brew. 2010, 116, 285–292.

Rasmussen, R.S.; Morrissey, M.T. Marine biotechnology for production of food ingredients. Adv. Food Nutr. Res. 2007, 52, 237–292.

Rasmusson AG, Soole KL, Elthon TE. 2004. Alternative NAD(P)H dehydrogenases of plant mitochondria. Annu Rev Plant Biol. 2004;55:23-39.

Raposo, M.F.J., Morais, R.M.S. C. 2011. *Chlorella vulgaris* as soil amendment: Influence of encapsulation and enrichment with rhizobacteria. Int. J. Agric. Biol. 2011, 13, 719–724.

Raposo, M.F.J., Oliveira, S.E., Castro, P.M., Bandarra, N.M., Morais, R.M. 2010.

On the utilization of microalgae for brewery effluent treatment and possible applications of the produced biomass. J. Inst. Brew. 2010, 116, 285–292.

Ratish Chandra Mishra, Rosy Kumari, Shivani Yadav and Jaya Parkash Yadav, " Target Based Virtual Screening of New Leads Inhibitor against Bacterial

Cell Division Protein FtsZ for the Discovery of Antibacterial Agents", Medicinal Chemistry (2019) 15: 1. https://doi.org/10.2174/1573406415666190206233448

Reed, G.1975. Enzymes in Food Processing. Academic Press. New York. 212.

Ridley, R.G., 2002, Medical need, scientific opportunity and the drive antiamalarial drugs, Nature, 415 : 686-6932002.

Ringbom, T, Huss, U, Stenholm, A, Flock, S, Skatteboel, P, Perera, P & Bohlin, L, 2001, 'COX-2 Inhibitory Effects on Naturally Occuring and Modified Fatty Acid', *J. Nat Prod*, vol. 64, pp. 745-749

Ringwald, P., J. Bickii, and L. K. Basco. 1996. In vitro activity of antimalarials against clinical isolates of *Plasmodium falciparum* in Yaounde, Cameroon. *Am. J. Trop. Med. Hyg*. 55: 254–258.

Rinidar, M. Isa, dan T. Armansyah. 2013. Nilai *Inhibition Concentration* (IC_{50}) Ekstrak Metanol Daun Sernai (*Wedelia biflora*) Terhadap *Plasmodium falciparum* yang Diinkubasi Selama 32 dan 72 Jam. *Jurnal Medika Veterinaria*. 7(1) : 8-12.

Rizky, Y. A., I. Raya, and S. Dali. 2013. Penentuan Laju Pertumbuhan Sel Fitoplankton *Chaetoceros calcitrans, Chlorella vulgaris, Dunaliella salina*, dan *Porphyridium cruentum*. *Skripsi*. Makassar: Jurusan Kimia, FMIPA, Universitas Hasanuddin.

Sachlan, M. 1972. *Planktonologi*. Jakarta: Direktorat Jendral Perikanan.

Sakata-Kato.T., D.F. Wirth. 2016. A novel methodology for bioenergetic analysis of Plasmodium falciparum reveals a glucose-regulated metabolic shift and enables mode of action analyses of mitochondrial inhibitors, ACS Infect Dis. 2 (12) 903–916, http://dx.doi.org/10.1021/acsinfecdis.6b00101 (PubMed PMID: 27718558).

Salcedo-Sora, J. E. E. Caamano-Gutierrez, S. A. Ward and G. A. Biagini. 2014. The proliferating cell hypothesis: a metabolic framework for *Plasmodium* growth and development. *Trends in Parasitology*. 30 (4): 170-175.

Salas, F., Fichmann, J., Lee, G.K., Scott, M.D.,1995, Functional expression of falcipain, a *Plasmodium falciparum* cysteine proteinase, support its role as a malarial hemoglobinase, *Infect. Immun*., 63 (6) : 2120-212.

Samarakoon, K.W., Ko, J.Y., Shah, M.M.R., Lee, J.H., Kang, M.C., O-Nam, K., Lee, J.B., & Jeon, Y.J., 2013. In Vitro Studies of Anti-Inflammatory and Anticancer Activities of Organic Solvent Extracts from Cultured Marine Microalgae. Algae, 28(1), pp.111-119.

Sangi, M. M., R. J., Runtuwene, H. E. I.,Simbala, & V. M. A., Makang. (2008). Phytochemical analysis of plant medicine in North Minahasa regency. *Progress chemistry, 1*, 47-53

Sari B.L., Susanti. N., Sutanto., 2015. Skrining Fitokimia dan Aktivitas Antioksidan Fraksi Etanol Alga Merah *Eucheuma spinosum.* Pharmaceutical Sciences & Research. Vol 2 (1) http://psr.ui.ac.id/index.php/journal/article/download/3208/377.

Siedel, V. 2006. Initial and bulk extraction. In : Sarker SD, Latif Z & Gray AI, Editors. *Natural Products Isolation. 2 nd ed. Totowa (New Jersey) Humana Press Inc*., 31 – 35.

Sridianti. 2010. Pengertian-tahapan Glikolisis. https://www.sridianti.com.pengerti-an-tahapan-glikolisis.

Sudarmaji. 2007.

Suratno, 2016. Skrining fitokimia ekstrak etanolmikroalga S. platensis yang berpotensi sebagai antibakteri. Jurnal Surya Medika Vol.1 No. 12. Hal:26-33.

Syarif, R.A., Mae, S.H.W., Mustofa, Ngatijan, Heri, K., dan Said, R.A.H., 2011. Aktivitas Antiplasmodium In Vitro Ekstrak Kembang Bulan (*Tithonia diversifolia* (Hemsley) A. Gray) terhadap *Plasmodium falciparum.* Tidak dipublikasikan.

Senecheau, C. V., Marcel, K., Isabelle, D., Antonie, V., Isabelle, M., & Anne, M. R., 2011. Antiprotozoal Activities of Organic Extracts from French Marine Seaweeds. Journal of Marine Drugs, 9, pp. 922-933.

Selvendran, M. 2013. Studies On Antimicrobial Compounds from Selected Marine Phytoplanktons. *International Journal of Pharma and Bio Sciences*. 4(2): (P) 876 – 888 .

Setyowati, E.A., 2005. Potensi *Spirulina platensis* sebagai Imunostimulan pada Gurami (*Osphronemus gourami* Lac.). Prosiding Seminar Nasional Perikanan UGM.

Shannon PVRE, Eichholtz T., Linstead D, Masdin P. 1999. Skinner R, inventor. Condensed heterocyclic compounds as anti-inflammatory and immunomodulatory agents, 1999. Google Patents, WO1999045926B1.

Shrikant, P., I. Y. Chung, M. E. Ballestas, and E. N. Benveniste. 1994. Regulation of intercellular adhesion molecule-1 gene expression by tumor necrosis factor-alpha, interleukin-1 beta, interferon gamma in astrocytes. *J Neuroimmunol*. 51: 209-20.

Shimizu.H., A. Osanai, K. Sakamoto, D.K. Inaoka, T. Shiba, S. Harada, et al.2012. Crystal structure of mitochondrial quinol-fumarate reductase from the parasitic nematode Ascaris suum, J. Biochem. 151 (6)589–592, http://dx.doi.org/10.1093/jb/ mvs051 (PubMed PMID: 22577165).

Simamora, D., & Loeki, E.F., 2007. Resistensi Obat Malaria: Mekanisme Dan Peran Obat Kombinasi Obat Antimalaria Untuk Mencegah. Jurnal Kedokteran Brawijaya, 23(2), pp.82-91.

Simanjuntak, P. 1995. Tumbuhan sebagai Sumber Zat Aktif Anti Malaria. Buletin Penelitian Kesehatan. 23 (2).

Siregar, A., 2010. *Transparasi Teknik Pendugaan Produktifitas Perairan*. Purwokerto: Fakultas Biologi Universitas Jenderal Soedirman.

Syarif, R.A., Mae, S.H.W., Mustofa, Ngatijan, Heri, K., dan Said, R.A.H., 2011. Aktivitas Antiplasmodium In Vitro Ekstrak Kembang Bulan (*Tithonia diversifolia* (Hemsley) A. Gray) terhadap *Plasmodium falciparum.* Tidak dipublikasikan.

Spavieri, J., Andrea, A., Marcel, K., Maurice, A.I., Gerald, B., Maria, M.M., &

Deniz, T., 2013. Assessment of Dual Life Stage Antiplasmodial Activity of British Seaweeds. Marine Drugs, 11, pp.4019-4034.

Stocks PA, Barton V, Antoine T, Biagini GA, Ward SA, O'Neill PM. Novel inhibitors of the Plasmodium falciparum electron transport chain. Parasitology. 2014; 141(1):50–65. https://doi.org/10.1017/ S0031182013001571 PMID: 24401337

Swamy, M.K. and U. R. Sinniah, "A comprehensive review on the phytochemical constituents and pharmacological activities of Pogostemon cablin Benth.: an aromatic medicinal plant of industrial importance," Molecules, vol. 20, no. 5, pp. 8521–8547, 2015. View at Publisher · View at Google Scholar · View at Scopus

Song, Y. and S. K. Cho, "Phytol induces apoptosis and ROS-mediated protective autophagy in human gastric adenocarcinoma AGS cells," Biochemistry & Analytical Biochemistry, vol. 4, article 211, 2015. View at Publisher · View at Google Scholar

Tarigan, J. 2007. Kombinasi Kina Tetrasiklin pada Pengobatan malaria *falciparum tanpa komplikasi di daerah resisten multidrug malaria*. Medan: Fakultas Kedokteran, Universitas Sumatera.

Tilley, L., P. Loria, and M. Foley. 2001. Antimalarial Chemother. 47:87.

Tjahjani, S., & Khie, K., 2010. Potensi Buah Merah Sebagai Antioksidan dalam Mengatasi Malaria *Berghei* pada Mencit Strain Balb/C. Majalah Kedokteran Indonesia, 60(12), pp.571-575.

Trager, W. and J.B. Jensen. 1976. Human malaria parasites in continuous culture. *Science.* 193(4254): 673-675.

Tuti, S., Suwarni, & Harijani, A.M., 1994. Pengembangan Biakan In Vitro *Plasmodium falciparum* secara Kontinu. Buletin Penelitian Kesehatan, 22(1), pp.1-10.

Uyemura SA, Luo S, Moreno SN, Docampo R. Oxidative phosphorylation,Ca(2+) transport, and fatty acid-induced uncoupling in malaria parasites mitochondria. J Biol Chem. 2000; 275(13):9709-9715.

Uyemura SA, Luo S, Vieira M, Moreno SN, Docampo R. Oxidative phosphory-

lation and rotenone-insensitive malate- and NADH-quinone oxidoreductases in Plasmodium yoelii yoelii mitochondria in situ. J Biol Chem. 2004;279(1):385-393.Current Topics in Malaria258

Tanaka.T.Q., M. Hirai, Y. Watanabe, K. Kita.2012. Toward understanding the role of mitochondrial complex II in the intraerythrocytic stages of Plasmodium falciparum: gene targeting of the Fp subunit, Parasitol. Int. 61 (4) 726–728, http://dx. doi.org/10.1016/j.parint.2012.06.002 (PubMed PMID: 22698672).

Tripathi. A.K., P.V. Desai, A. Pradhan, S.I. Khan, M.A. Avery, L.A. Walker, etal. 2004. An alpha proteo bacterial type malate dehydrogenase may complement LDH functionin Plasmodium falciparum. Cloning and biochemical characterization of the enzyme,Eur.J.Biochem.271(17)(2004) 3488–3502, http://dx.doi.org/10.1111/j.14321033.2004.04281.x (PubMed PMID: 15317584).

Tzardis, t., S. E., G. W. Patterson, G. H. Wikfors, P. K. Gladu, and D. Harrison. 1993. Sterols of *Chaetoceros* and *Skeletonema.* Lipids. *Aquaculture*. 28: 465-467.

Vallieres C, Fisher N, Antoine T, Al-Helal M, Stocks P, Berry NG, et al. HDQ, a potent inhibitor of Plasmodium falciparum proliferation, binds to the quinone reduction site of the cytochrome bc1 complex. Antimicrob Agents Chemother. 2012;56(7):3739-3747.

Van Dooren GG, Marti M, Tonkin CJ, Stimmler LM, Cowman AF, McFadden GI.2005.Development of the endoplasmic reticulum, mitochondrion, and apicoplast during the asexual life cycle of Plasmodium falciparum. Mol Microbiol. 2005;57(2):405-419.

Vijay Jayaraman VBaHB, Crosstalk between purine nucleotide metabolism and mitochondrial pathways in Plasmodium falciparum, Curr. Sci. 102 (5) (2012).

V. Dooslin M.B & S Krisnakumar, 2013. Evaluation of Antimicrobial Metabolites From Marine Microagae *Tetraselmis suecica* using Chromatography Mass Spectrometry (GC-S) Analysis. International Journal of Pharmacy and Pharmaceutical Sciences, 5(3):S24-S27.

Vonshak A. 1997. Spirulina platensis (Arthrospira). Physiology, cell-biology and Biotechnology. Taylor and Francis. 234p.

Xinying Wang. X., Yukiko.M., Daniel, K.I., Hartuti, E.D.,Yoh-Ichi, W., Tomoo, S., Shigeharu,H., Hiroyuki,S, Jeremy, N.B., Francisco. J.G.B., Tomoyoshi, N.,and Kiyoshi, K. 2019. Identification of Plasmodium falciparum

Mitochondrial Malate: Quinone Oxidoreductase Inhibitors from the Pathogen Box *Genes* **2019**, *10*(6), 471; https://doi.org/10.3390/genes10060471

Wells,T.N., Huijsduijnen, R.V.H., VanVoorhis, W.C. 2015. Malaria medicines: a glass half full? Nat Rev Drug Discov.14(6):424-442.

Wenno, M.R., Purbosari, N., & Thenu, J.L., 2010. Ekstraksi Senyawa Antibakteri dari *Chlorella vulgaris*. Jurnal Penelitian Pertanian Terapan, 10(2), pp.131-137.

Wei L.S., W. Wee, J. Y. F. Siong, and D. F. Syamsumir. 2011. "Characterization of anticancer, antimicrobial,antioxidant properties and chemical compositions of Peperomia pellucida leaf extract," Acta Medica Iranica, vol. 49, no. 10, pp. 670–674, 2011. View at Google Scholar · View at Scopus

Widyawuryanti, A., A.P. Devi., N. Fatri., L. Tumewu., I. Tantular., and A.F. Hafid. 2014.In vitro antimalarial Activity Screening of Several Indonesian Plants Using HRP2 Assay. *International Journal of Pharmacy and Pharmacetical Sciences.* (6): 125-128.

Widowati, W., Ratu, S., Rymond, R., & Marlinda, S., 2005. Penapisan Aktivitas Superoksida Dismutase pada Berbagai Tanaman. Jurnal Kesehatan Masya-rakat, 5(1), pp.33-48.

Wijayanti, M. A., Supargiyono, Mustofa, Nurcahyo,W., Solihah, E.N, Jumina Tahir, I. Hadanu, R. 2007. Heme Polymerization Inhibitory Activity (HPIA) of N- alkyl and N- benzyl-l, 10-Phenanthroline Derivatives as Antimalaria, Proceeding, ICCS- 2077.

Winarno, F.G. 1989. Enzim Panan dan Gizi. PT. Gramedia Pustaka Utma. Jakarta. 155 halaman.

Wirahadikusuma, M. 1989. Biokimia : protein, Enzim dan Asam Nukleat. ITB Press. Bandung. 91 halaman.

Wirosaputro, S. 2002. Chlorella Untuk Kesehatan Global. Teknik Budidaya Dan Pengolahan, Jilid II. Yogyakarta: Gajah Mada University Press

Wiser, W.F. 2003. Mechanism of Drug Action and Resistance (Focus on antima-malarials), http;//www.tulane.edu/~wiser/protozoology/notes/drugs/html

World Health Organization, 2013. Expert Comitte on Malaria, Technical Report Series, Twentieth Report, WHO, Geneva

World Health Organization, 2014. World Malaria Report. Geneva : WHO Global Malaria Programme.

Wujek, D.E. & M. Graebner. 1980. A new freshwater species of *Chaetoceros* from the Great Lakes region. *Journal of Great Lakes Research.* 6(3): 260-262.

Yagi T. Bacterial NADH-quinone oxidoreductases. J Bioenerg Biomembr. 1991;23(2):211-225.

Yeh I, Hanekamp T, Tsoka S, Karp PD, Altman RB. Computational analysis of Plasmodium falciparum metabolism: organizing genomic information to facilitate drug discovery. Genome Res. 2004;14(5):917-924.

Yoshino. R., N. Yasuo, D.K. Inaoka, Y. Hagiwara, K. Ohno, M. Orita, et al.2015. Pharmacophore modeling foranti-Chagas drug design using the fragment molecular orbital method, PLoS One 10 (5) e0125829, , http://dx.doi.org/ 10.1371/ journal.pone.0125829 (PubMed PMID: 25961853; PubMed Central PMCID: PMCPMC4427443).

Zainuri, M., Endrawati, H., Kusdiyantini, E., & Kusmaningrum, P.H., 2008. Konsumsi Harian Cepepoda Terhadap Pakan *Chlorella vulgaris* pada Volume Medium Kultivasi yang Berbeda. Ilmu Kelautan UNDIP, 13(3).

Zein et al, 2004. Zerihun, T., A. Degarege, and B. Erko. 2007. Association of ABO blood group and *Plasmodium falciparum* malaria in Dore Bafeno Area, Southern Ethiopia. *Asian Pac J Trop Biomed*. 1(4): 289-294.