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DAFTAR PUSTAKA

Aarthi, N. dan Murugan, K., 2011. Antimalarial Activity and Phytochemical Screening of Ethanolic Leaf Extract of Phyllanthus Niruri and Mimosa Pudica. *International journal of pharmaceutical research and development(IJPRD)*, **3**: 8.

Abagale, S.A., Sackey, I., Esuah, M.C., dan Lassey, K., 2017. Comparative Mosquito Repellency of Dried Leaves of Hyptis Suaveolens, Cassia Obtusifolia, Striga Hermonthica from the Upper East Region of Ghana and Two Standard Repellants. *Journal of Asian Scientific Research*, **7**: 459–470.

Abdallah, I.I. dan Quax, W.J., 2017. A Glimpse into the Biosynthesis of Terpenoids. *KnE Life Sciences*, **3**: 81.

Abdul-Nasir-Deen, A.-Y., Boakye, Y.D., Osafo, N., Agyare, C., Boamah, D., Boamah, V.E., dkk., 2020. Anti-inflammatory and wound healing properties of methanol leaf extract of Physalis angulata L. *South African Journal of Botany*, **133**: 124–131.

Abeyasinghe, D.R., 2016. Plasmodium knowlesi current status and the request for review by an Evidence Review Group. *WHO*, 40.

Aguoru, C.U., Offia, K.L., dan Olasan, J.O., 2016. Insecticidal Efficacy of Plumeria Species Leaf Extract on Two Economically Important Insects Populations: Mosquito (Anopheles) and Bean Weevils (Callosobruchus Maculatus). *Journal of Herbal Medicine Research (JHMR)*, **1**: .

Ahmad, R., Ahmed, S., Khan, N.U., dan Hasnain, A., 2009. Operculina turpethum attenuates N-nitrosodimethylamine induced toxic liver injury and clastogenicity in rats. *Chemico-Biological Interactions*, **181**: 145–153.

Airaodion, A.I., Airaodion, E.O., Ekenjoku, J.A., Ogbuagu, E.O., dan Ogbuagu, U., 2019. Antiplasmodial Potency of Ethanolic Leaf Extract of Carica papaya against Plasmodium berghei in Infected Swiss Albino Mice. *Asian Journal of Medical Principles and Clinical Practice*, **2**: 8.

Akhtar, F., Rizvi, M.M.A., dan Kar, S.K., 2012. Oral delivery of curcumin bound to chitosan nanoparticles cured Plasmodium yoelii infected mice. *Biotechnology Advances*, **30**: 310–320.

Akono Ntonga, P., Baldovini, N., Mouray, E., Mambu, L., Belong, P., dan Grellier, P., 2014. Activity of Ocimum basilicum , Ocimum canum , and Cymbopogon citratus essential oils against Plasmodium falciparum and mature-stage larvae of Anopheles funestus.s. *Parasite*, **21**: 33.

Al-Adhroey, A.H., Nor, Z.M., Al-Mekhlafi, H.M., Amran, A.A., dan Mahmud, R., 2010. Antimalarial Activity of Methanolic Leaf Extract of Piper betle L. *Molecules*, **16**: 107–118.

Alharits, L., Handayani, W., Yasman, dan Hemelda, N.M., 2019. 'Phytochemical analysis and antioxidant activity of leaves and flowers extracts of mistletoe (Dendrophthoe pentandra (L.) Miq.), collected from UI Campus, Depok', . Dipresentasikan pada PROCEEDINGS OF THE 4TH INTERNATIONAL SYMPOSIUM ON CURRENT PROGRESS IN MATHEMATICS AND SCIENCES (ISCPMS2018), Depok, Indonesia, hal. 020101.

UNIVERSITAS
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Almeida Junior, L.D., Quaglio, A.E.V., de Almeida Costa, C.A.R., dan Di Stasi, L.C., 2017. Intestinal anti-inflammatory activity of Ground Cherry (Physalis angulata L.) standardized CO 2 phytopharmaceutical preparation. *World Journal of Gastroenterology*, **23**: 4369.

Aluko, B.T., Oloyede, O.I., dan Afolayan, A.J., 2012. Polyphenolic Contents and Free Radical Scavenging Potential of Extracts from Leaves of Ocimum americanum L. *Pakistan Journal of Biological Sciences*, **16**: 22–30.

Amazu, L., Azikiwe, C., Njoku, C., Osuala, F., Nwosu, P., Ajugwo, A., dkk., 2010. Antiinflammatory activity of the methanolic extract of the seeds of Carica papaya in experimental animals. *Asian Pacific Journal of Tropical Medicine*, **3**: 884–886.

Amin, M., Putra, K.S., Amin, I.F., Earlia, N., Maulina, D., Lukiati, B., dkk., 2018. Quercetin: the bioactive compound from Allium cepa L. as anti-inflammation based on in silico screening. *Biology, Medicine, & Natural Product Chemistry*, **7**: 27–31.

Anasane, P.D. dan Chaturvedi, A., 2017. Evaluation of Anti-inflammatory Effects if Ficus hispida L. leaves extract against Carageenan induced Paw Edema in Rats. *J. Pharm. Sci.*, **9**: 4.

Ang, H.Y., Subramani, T., Yeap, S.K., Omar, A.R., Ho, W.Y., Abdullah, M.P., dkk., 2014. Immunomodulatory effects of Potentilla indica and Dendrophthoe pentandra on mice splenocytes and thymocytes. *Experimental and Therapeutic Medicine*, **7**: 1733–1737.

Anggraito, Y.U., Susanti, R., Iswari, R.S., dan Yuniastuti, A., 2018. *Metabolit Sekunder dari Tanaman: Aplikasi dan Produksi*. Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Semarang, Semarang.

Anuja, G.I., Latha, P.G., Suja, S.R., Shyamal, S., Shine, V.J., Sini, S., dkk., 2010. Anti-inflammatory and analgesic properties of Drynaria quercifolia (L.) J. Smith. *Journal of Ethnopharmacology*, **132**: 456–460.

Apu, A., Hossain, F., Bhuyan, S., Rizwan, F., Matin, M., dan Jamaluddin, A.T.M., 2013. Study of pharmacological activities of methanol extract of Jatropha gossypifolia fruits. *Journal of Basic and Clinical Pharmacy*, **4**: 20.

Arrey Tarkang, P., Nwachiban Atchan, A.P., Kuiate, J.-R., Okalebo, F.A., Guantai, A.N., dan Agbor, G.A., 2013. Antioxidant Potential of a Polyherbal Antimalarial as an Indicator of Its Therapeutic Value. *Advances in Pharmacological Sciences*, **2013**: 1–9.

Arulmozhi, S., Mazumder, P.M., Ashok, P., Hulkoti, B., dan Sathiya Narayanan, L., 2007. Antinociceptive and Anti-inflammatory Activities of Alstonia scholaris Linn. R.br. *PHCOG MAG.: Research Article*, **3**: .

Baba, G., Adewumi, A.A.J., dan Aina, V.O., 2011. Phytochemical Characterization and in-vivo Anti-Malaria Activity of Lantana camara Leaf Extract. *British Journal of Pharmacology and Toxicology*, **2**: 6.

Balderrama-Carmona, A.P., Silva-Beltrán, N.P., Gálvez-Ruiz, J.-C., Ruíz-Cruz, S., Chaidez-Quiroz, C., dan Morán-Palacio, E.F., 2020. Antiviral, Antioxidant, and Antihemolytic Effect of Annona muricata L. Leaves Extracts. *Plants*, **9**: 1650.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Balyan, U., Verma, S.P., dan Sarkar, B., 2019. Phenolic compounds from Syzygium cumini (L.) Skeels leaves: Extraction and membrane purification. *Journal of Applied Research on Medicinal and Aromatic Plants*, **12**: 43–58.

Bastos, G.N.T., Santos, A.R.S., Ferreira, V.M.M., Costa, A.M.R., Bispo, C.I., Silveira, A.J.A., dkk., 2006. Antinociceptive effect of the aqueous extract obtained from roots of Physalis angulata L. on mice. *Journal of Ethnopharmacology*, **103**: 241–245.

Bastos, G.N.T., Silveira, A.J.A., Salgado, C.G., Picanço-Diniz, D.L.W., dan do Nascimento, J.L.M., 2008. Physalis angulata extract exerts anti-inflammatory effects in rats by inhibiting different pathways. *Journal of Ethnopharmacology*, **118**: 246–251.

Batur, M., cheng, L., Yan, D., dan Parhat, K., 2008. Hepatoprotective effect of Gossipium hirsutum extract on acute experimental hepatitis on rat liver injury.

Bello, O.M., Ogbesejana, A.B., dan Tijjani, A., 2018. Lipoxygenase (Lox) Inhibitory Activity of Leaves Of Ceiba Pentandra (L.) Gaertn: A Neglected Vegetable from Nigeria. *Bello, O. M., Ogbesejana, A. B. and*, **2**: .

Bhadoriya, S.S., 2012. Anti-Inflammatory and Antinociceptive Activities of a Hydroethanolic Extract of Tamarindus indica Leaves. *Scientia Pharmaceutica*, **80**: 685–700.

Biruksew, A., Zeynudin, A., Alemu, Y., Golassa, L., Yohannes, M., Debella, A., dkk., 1970. Zingiber Officinale Roscoe and Echinops Kebericho Mesfin Showed Antiplasmodial Activities against Plasmodium Berghei in a Dosedependent Manner in Ethiopia. *Ethiopian Journal of Health Sciences*, **28**: .

Bose, A., Mondal, S., Gupta, J.K., Ghosh, T., Dash, G.K., dan Si, S., 2007. Analgesic, anti-inflammatory and antipyretic activities of the ethanolic extract and its fractions of Cleome rutidosperma. *Fitoterapia*, **78**: 515–520.

Bose, A., Smith, P.J., Lategan, C.A., Gupta, J.K., dan Si, S., 2010. Studies on In Vitro Antiplasmodial Activity of Cleome rutidosperma. *Acta Poloniae Pharmaceutica ñ Drug Research*, **67**: 4.

Brazier, A.J., Avril, M., Bernabeu, M., Benjamin, M., dan Smith, J.D., 2017. Pathogenicity Determinants of the Human Malaria Parasite Plasmodium falciparum Have Ancient Origins. *mSphere*, **2**: .

Budi, D.S. dan Solikhah, N., 2013. Saat Parasit Membasmi Parasit: Uji Efektivitas Ekstrak Benalu Sebagai Terapi Malaria Baru.

Budiarti, M., Maruzy, A., Rk, N.R., dan Brotojoyo, E., 2020. Aktivitas Antimalaria Daun Gempol (Nauclea orientalis (L.) L) terhadap Plasmodium falciparum. *Media Penelitian dan Pengembangan Kesehatan*, **30**: 135–146.

Cabrini, D.A., Moresco, H.H., Imazu, P., Silva, C.D. da, Pietrovski, E.F., Mendes, D.A.G.B., dkk., 2011. Analysis of the Potential Topical Anti-Inflammatory Activity of Averrhoa carambola L. in Mice. *Evidence-Based Complementary and Alternative Medicine*, **2011**: 1–7.

Cahyaningsih, U., Sa'diah, S., Syafii, W., Sari, R.K., M, H., dan Wahyuningrum, M., 2020. Effect of After-Treatment of Strychnos ligustrina Extract on The

UNIVERSITAS GADJAH MADA
Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa Tenggara Timur (NTT)
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Percentage of Parasitemia in Mice Infected with Plasmodium berghei. *E3S Web of Conferences*, **151**: 01023.

campos, M. rubi segura, 2016. *The Promising Furute Of Jatropha Curcas: Properties and Potential Applications*. Nova Publisher, New York.

Centers for disease control and preventon (CDC), 2020. 'CDC - DPDx - Malaria', . URL: https://www.cdc.gov/dpdx/malaria/index.html (diakses tanggal 4/1/2021).

Chan, H.-H., Hwang, T.-L., Thang, T., Leu, Y.-L., Kuo, P.-C., Nguyet, B., dkk., 2013. Isolation and Synthesis of Melodamide A, a New Anti-inflammatory Phenolic Amide from the Leaves of Melodorum fruticosum. *Planta Medica*, **79**: 288–294.

Chander, R., Srivastava, V., Tandon And, J.S., dan Kapoor, N.K., 1995. Antihepatotoxic Activity of Diterpenes of Andrographis Paniculata (Kal-Megh) Against Plasmodium Berghei-Induced Hepatic Damage in Mastomys Natalensis. *International Journal of Pharmacognosy*, **33**: 135–138.

Chandrashekhar D. Patil, Hemant P Borase, Rahul B Salunkhe, Rahul K Suryawanshi, Chandrakant P Narkhade, Bipinchandra K Salunke, dkk., 2014. Mosquito Larvicidal Potential of Gossypium hirsutum (Bt cotton) Leaves Extracts against Aedes aegypti and Anopheles stephensi larvae. *J Arthropod-Borne Dis*, **8**: .

Chen, L.-C., Liao, H.-R., Chen, P.-Y., Kuo, W.-L., Chang, T.-H., Sung, P.-J., dkk., 2015. Limonoids from the Seeds of Swietenia macrophylla and Their Anti-Inflammatory Activities. *Molecules*, **20**: 18551–18564.

Chen, T.-Y., Sun, H.-L., Yao, H.-T., Lii, C.-K., Chen, H.-W., Chen, P.-Y., dkk., 2013. Suppressive effects of Indigofera suffruticosa Mill extracts on lipopolysaccharide-induced inflammatory responses in murine RAW 264.7 macrophages. *Food and Chemical Toxicology*, **55**: 257–264.

Chinwude, E.I., Roshan, K., Swati, J., Adeola, S.O., dan Martins, E., 2014. Identification of sitosteryl glucoside palmitate in a chloroform-derived fraction of Phyllanthus niruri with antiplasmodial and peripheral antinociceptive properties. *Asian Pacific Journal of Tropical Biomedicine*, **4**: 707–713.

Chukwujekwu, J.C., Smith, P., Coombes, P.H., Mulholland, D.A., dan van Staden, J., 2005. Antiplasmodial diterpenoid from the leaves of Hyptis suaveolens. *Journal of Ethnopharmacology*, **102**: 295–297.

Claudia, D., Mario, C.-H., Arturo, N., Omar Noel, M.-C., Antonio, N., Teresa, R., dkk., 2018. Phenolic Compounds in Organic and Aqueous Extracts from Acacia farnesiana Pods Analyzed by ULPS-ESI-Q-oa/TOF-MS. In Vitro Antioxidant Activity and Anti-Inflammatory Response in CD-1 Mice. *Molecules*, **23**: 2386.

Co, E., 2013. Chemical Composition and Free Radical Scavenging Activities of 10 Elite Accessions of Ginger (Zingiber officinale Roscoe). *Journal of Clinical Toxicology*, **03**: .

Collins, W.E. dan Jeffery, G.M., 2007. Plasmodium malariae: Parasite and Disease. *Clinical Microbiology Reviews*, **20**: 579–592.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Coppi, A., Cabinian, M., Mirelman, D., dan Sinnis, P., 2006. Antimalarial Activity of Allicin, a Biologically Active Compound from Garlic Cloves. *Antimicrobial Agents and Chemotherapy*, **50**: 1731–1737.

Coppi, A., Pinzon-Ortiz, C., Hutter, C., dan Sinnis, P., 2005. The Plasmodium circumsporozoite protein is proteolytically processed during cell invasion. *Journal of Experimental Medicine*, **201**: 27–33.

Dakum, Y.D., Amajoh, C.N., Ombugadu, A., Istifanus, G., Agwom, F., Joseph, S.T., dkk., 2021. Larvicidal Efficacy and GC-MS Analysis of Hyptis suaveolens Leaf Extracts against Anopheles Species. *International Journal of Biochemistry Research & Review*, **30**: 8–19.

Dao, P.T.A., Le Quan, T., dan Mai, N.T.T., 2015. Constituents of the Stem of Nauclea orientalis. *Natural Product Communications*, **10**: 1934578X1501001.

Das, B.K., Bepary, S., Datta, B.K., Chowdhury, A.K.A., Ali, M.S., dan Rouf, A.S.S., 2008. Hepatoprotective Activity of Phyllanthus reticulatus. *Pakistan Journal of Pharmaceutical Sciences*, 6.

David, C.R.S., Angeles, A., Angoluan, R.C., David, E.S., dan Dulay, R.M.R., 2016. Moringa oleifera (Malunggay) Water Extracts Exhibit Embryo-toxic and Teratogenic Activity in Zebrafish (Danio rerio) Embryo Model. *Der Pharmacia Lettre*, **8**: 6.

Dawet, A., Anyanwu, I., Dede, M., Uzoigwe, N., dan Onyekwelu, N., 2012. In vivo antimalarial activity of the ethanolic leaf extract of Hyptis suaveolens poit on Plasmodium berghei in Mice. *International Journal of Biological and Chemical Sciences*, **6**: 117–127.

Dayananda, K., Achur, R., dan Gowda, Dc., 2018. Epidemiology, drug resistance, and pathophysiology of *Plasmodium vivax* malaria. *Journal of Vector Borne Diseases*, **55**: 1.

Deharo, E., Bourdy, G., Quenevo, C., Munoz, V., Ruiz, G., dan Sauvain, M., 2001. A search for natural bioactive compounds in Bolivia through multidisciplinary approach. Part V. Evaluation of the antimalarial activity of plants used by the Tacana Indians. *A search for natural bioactive compounds in Bolivia through multidisciplinary approach*, **77**: .

Donkor, A.-M., Oduro-Mens, D., Ani, E., Ankamah, E., Nsiah, S., Ekow Mensa, D., dkk., 2015. In vitro Anti-Plasmodial Activity of Aqueous and Ethanolic Extracts of Moringa oleifera and Phyllanthus amarus. *International Journal of Biological Chemistry*, **9**: 198–206.

Dua, V.K., Ojha, V.P., Roy, R., Joshi, B.C., Valecha, N., Devi, C.U., dkk., 2004. Anti-malarial activity of some xanthones isolated from the roots of Andrographis paniculata. *Journal of Ethnopharmacology*, **95**: 247–251.

Duru, I.A. dan Duru, C.E., 2019. Identification and Quantification of Phytochemicals. *J. Chem Soc. Nigeria*, **44**: 7.

Dussossoy, E., Brat, P., Bony, E., Boudard, F., Poucheret, P., Mertz, C., dkk., 2011. Characterization, anti-oxidative and anti-inflammatory effects of Costa Rican noni juice (Morinda citrifolia L.). *Journal of Ethnopharmacology*, **133**: 108–115.

UNIVERSITAS GADJAH MADA
Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa Tenggara Timur (NTT)
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Ekasari, W., Widiyastuti, Y., Subositi, D., Hamsidi, R., Widyawaruyanti, A., Basuki, S., dkk., 2020. Determination of Cassiarin A Level of Cassia siamea Leaf Obtained from Various Regions in Indonesia Using the TLC-Densitometry Method. *The Scientific World Journal*, **2020**: 1–7.

Elela, M.E.A., Orabi, M.A.A., Abdelkader, M.S.A., dan Darwish, F.M.M., 2015. Phytochemical screening and HPTLC studies of Ceiba pentandra (L.) Gaertn. variety pentandra cultivated in Egypt. *Journal of Pharmacognosy and Phytochemistry*, **4**: 8.

Engels, N.S., Waltenberger, B., Michalak, B., Huynh, L., Tran, H., Kiss, A.K., dkk., 2018. Inhibition of Pro-Inflammatory Functions of Human Neutrophils by Constituents of Melodorum fruticosum Leaves. *Chemistry & Biodiversity*, **15**: e1800269.

Ettebong, E., Ubulom, P., dan Etuk, A., 2019. Antiplasmodial activity of methanol leaf extract of Citrus aurantifolia (Christm) Swingle. *Journal of Herbmed Pharmacology*, **8**: 274–280.

Fabricant, D.S. dan Farnsworth, N.R., 2001. The Value of Plants Used in Traditional Medicine for Drug Discovery. *Environmental Health Perspectives*, **109**: 7.

Feng, Y., Zhu, X., Wang, Q., Jiang, Y., Shang, H., Cui, L., dkk., 2012. Allicin enhances host pro-inflammatory immune responses and protects against acute murine malaria infection. *Malaria Journal*, **11**: 268.

Fitria, E., 2015. Lc50 dari Ekstrak Daun Putri Malu (Mimosa Pudica L.) terhadap Larva Nyamuk Demam Berdarah (Aedes Aegypti L.) dan Larva Nyamuk Malaria (Anopheles Sp.). *STIGMA*, **08**: 4.

Fredotović, Ž., Šprung, M., Soldo, B., Ljubenkov, I., Budić-Leto, I., Bilušić, T., dkk., 2017. Chemical Composition and Biological Activity of Allium cepa L. and Allium × cornutum (Clementi ex Visiani 1842) Methanolic Extracts. *Molecules*, **22**: 448.

Ganguly, S., Mula, S., Chattopadhyay, S., dan Chatterjee, M., 2010. An ethanol extract of *Piper betle* Linn. mediates its anti-inflammatory activity via down-regulation of nitric oxide. *Journal of Pharmacy and Pharmacology*, **59**: 711–718.

Garavito, G., Rincón, J., Arteaga, L., Hata, Y., Bourdy, G., Gimenez, A., dkk., 2006. Antimalarial activity of some Colombian medicinal plants. *Journal of Ethnopharmacology*, **107**: 460–462.

Gaur, K., Rana, A.C., Chauhan, L.S., Sharma, C.S., Nema, R.K., dan Kori, M.L., 2009. Investigation of Immunomodulatory Potential of Euphorbia neriifolia Linn. against Betamethasone Induced Immunosuppression. *International Journal of Pharmacognosy and Phytochemical Research*, **1**: 4.

Godoy de Lima, R., Barros, M.T., dan da Silva Laurentiz, R., 2018. Medicinal Attributes of Lignans Extracted from Piper Cubeba : Current Developments. *ChemistryOpen*, **7**: 180–191.

Gomes, G.S., 2018. Optimization of Curcuma Oil/Quinine-Loaded Nanocapsules for Malaria Treatment. *AAPS PharmSciTech*, **19**: 15.

Gopinath, S.M., Rakesh, C.K., Murthy, T.P.N., dan Dayananda, K.S., 2012. Preliminary phytochemical evaluation of leaf extracts of Gymnema

Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
Tenggara Timur (NTT)
EUNICE DWININTA BANGUN, Prof. Dr. apt. Suwidjiyo Pramono, DEA.
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sylvestre, Phyllanthus amarus, Phyllanthus reticulatus of Siddarabetta, Tumkur district, Karnataka. *International Journal of Pharmacognosy and Phytochemical Research*, **4**: 3.

Grace, M.H., Lategan, C., Graziose, R., Smith, P.J., Raskin, I., dan Lila, M.A., 2012. Antiplasmodial Activity of the Ethnobotanical Plant Cassia fistula. *Natural Product Communications*, **7**: 1934578X1200701.

Grzanna, R., Lindmark, L., dan Frondoza, C.G., 2005. Ginger—An Herbal Medicinal Product with Broad Anti-Inflammatory Actions. *Journal of Medicinal Food*, **8**: 125–132.

Gupta, S. dan Apte, K.G., 2018. Evaluation of phytochemical, antioxidant and cytotoxic potential of Sesbania grandiflora Linn. *The Journal of Phytopharmacology*, **7**: 8.

Han, Y., Li, X., Zhang, X., Gao, Y., Qi, R., Cai, R., dkk., 2020. Isodeoxyelephantopin, a sesquiterpene lactone from Elephantopus scaber Linn., inhibits pro-inflammatory mediators' production through both NF-κB and AP-1 pathways in LPS-activated macrophages. *International Immunopharmacology*, **84**: 106528.

Harmida, S. dan Febriansari, Y.V., 2011. Studi Etnofitomedika di Desa Lawang Agung Kecamatan MulakUlu Kabupaten Lahat Sumatera Selatan. *Jurnal Penelitian Sains*, **Volume 14 Nomer 1(D**: .

He, Z.-D., Ma, C.-Y., Zhang, H.-J., Tan, G.T., Tamez, P., Sydara, K., dkk., 2005. Antimalarial Constituents from Nauclea orientalis (L.) L. *Chemistry & Biodiversity*, **2**: 1378–1386.

Helmi, H. dan Susanti, I., 2013. Phytochemical Tested and In Vitro Screening Anti-Malaria Activity Of Belilik (Brucea Javanica (L)). Merr Against Plasmodium falciparum. *Berkala Penelitian Hayati*, **19**: 1–4.

Hernández-Ortega, M., Ortiz-Moreno, A., Hernández-Navarro, M.D., Chamorro-Cevallos, G., Dorantes-Alvarez, L., dan Necoechea-Mondragón, H., 2012. Antioxidant, Antinociceptive, and Anti-Inflammatory Effects of Carotenoids Extracted from Dried Pepper (*Capsicum annuum* L.). *Journal of Biomedicine and Biotechnology*, **2012**: 1–10.

Hidayati, A.R., Widyawaruyanti, A., Ilmi, H., Tanjung, M., Widiandani, T., Siswandono S, S., dkk., 2020. Antimalarial Activity of Flavonoid Compound Isolated from Leaves of Artocarpus altilis. *Pharmacognosy Journal*, **12**: 835–842.

Howlader, Md.S.I., Siraj, Md.A., Dey, S.K., Hira, A., Ahmed, A., dan Hossain, Md.H., 2017. Ficus hispida Bark Extract Prevents Nociception, Inflammation, and CNS Stimulation in Experimental Animal Model. *Evidence-Based Complementary and Alternative Medicine*, **2017**: 1–14.

Huang, Y.-F., Zhou, J.-T., Qu, C., Dou, Y.-X., Huang, Q.-H., Lin, Z.-X., dkk., 2017. Anti-inflammatory effects of Brucea javanica oil emulsion by suppressing NF-κB activation on dextran sulfate sodium-induced ulcerative colitis in mice. *Journal of Ethnopharmacology*, **198**: 389–398.

Ifeoma, O., Samuel, O., Itohan, A.M., dan Adeola, S.O., 2013. Isolation, fractionation and evaluation of the antiplasmodial properties of Phyllanthus

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GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

niruri resident in its chloroform fraction. *Asian Pacific Journal of Tropical Medicine*, **6**: 169–175.

Imam, A.A., Salim, M.A., Bala, M., Aisha, M.I., dan Yahaya, S., 2016. Phytochemistry and antiplasmodial properties of aqueous and methanol leaf extracts of Jatropa curcas. *Bayero Journal of Pure and Applied Sciences*, **9**: 93.

Imam, A.A., Shehu, A., Khalil, I.A., dan Abdullahi, H., 2018. Phytochemistry and in vitro antiplasmodial properties of aqueous and ethanol stem bark extracts of Jatropha curcas Physic Nut). *Bayero Journal of Pure and Applied Sciences*, **10**: 159.

Irianto, K., 2013. *Parasitologi Medis*. Alfabeta, Bandung.

Jahan, T., Shahreen, S., Banik, J., Islam, F., Mamun, A.A., Das, R., dkk., 2011. Antinociceptive Activity Studies with Methanol Extracts of Ficus Hispida L.f. Leaves and Fruits in Swiss Albino Mice. *Advances in Natural and Applied Sciences*, **5**: 5.

Jamal, A.K., Yaacob, W.A., dan Din, L.B., 2008. A Chemical Study on Phyllanthus reticulatus. *Journal of Physical Science*, **19**: 6.

Johns, T., Windust, A., Jurgens, T., dan Mansor, S.M., 2011. Antimalarial alkaloids isolated from Annona squamosa. *Phytopharmacology*, **1**: 5.

Julianti, T., De Mieri, M., Zimmermann, S., Ebrahimi, S.N., Kaiser, M., Neuburger, M., dkk., 2014a. HPLC-based activity profiling for antiplasmodial compounds in the traditional Indonesian medicinal plant Carica papaya L. *Journal of Ethnopharmacology*, **155**: 426–434.

Julianti, T., Oufir, M., dan Hamburger, M., 2014b. Quantification of the Antiplasmodial Alkaloid Carpaine in Papaya (Carica papaya) Leaves. *Planta Medica*, **80**: 1138–1142.

Kale, S.S., Darade, V., dan Thakur, H.A., 2011. Analysis of Fixed Oil From Sterculia Foetida Linn. *IJPSR*, **2**: 7.

Kamaraj, C., Bagavan, A., Elango, G., Zahir, A.A., Rajakumar, G., Marimuthu, S., dkk., 2011. Larvicidal activity of medicinal plant extracts against Anopheles subpictus & Culex tritaeniorhynchus. *INDIAN J MED RES*, 6.

Kana, C., 1986. *Arsitektur Tradisional Daerah Nusa Tenggara Timur*. Departemen Pendidikan dan Kebudayaan.

Kaou, A.M., Mahiou-Leddet, V., Hutter, S., Aïnouddine, S., Hassani, S., Yahaya, I., dkk., 2008. Antimalarial activity of crude extracts from nine African medicinal plants. *Journal of Ethnopharmacology*, **116**: 74–83.

Kebede, B.H., Forsido, S.F., Tola, Y.B., dan Astatkie, T., 2021. Free radical scavenging capacity, antibacterial activity and essential oil composition of turmeric (Curcuma domestica) varieties grown in Ethiopia. *Heliyon*, **7**: e06239.

Kementerian Kesehatan Republik Indonesia, 2013. *Vademekum Tanaman Obat Untuk Saintifikasi Jilid 3*. Kementerian Kesehatan Republik Indonesia, Jakarta.

Kementerian Kesehatan Republik Indonesia, 2016. *Formularium Obat Herbal Asli Indonesia*. Kementerian Kesehatan Republik Indonesia, Jakarta.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Kementerian Kesehatan Republik Indonesia, 2017. *Buku Saku Penatalaksanaan Kasus Malaria*. Ditjen Pencegahan dan Pengendalian Penyakit, Jakarta.

Kementerian Kesehatan Republik Indonesia, 2019. *Data Dan Informasi Profil Kesehatan Indonesia 2019*. Kementerian Kesehatan Republik Indonesia, Jakarta.

Khan, A., Haque, E., Mukhlesur Rahman, M., Mosaddik, A., Abdul Alim Al-Bari, M., dan Rahman, M., 2007. Antipyretic Activity of Rhizome of Drynaria quercifolia. in Rabbit. *Pharmaceutical Biology*, **45**: 312–315.

Khan, M.J., Saraf, Swarnlata, dan Saraf, Shailendra, 2017. Anti-inflammatory and associated analgesic activities of HPLC standardized alcoholic extract of known ayurvedic plant Schleichera oleosa. *Journal of Ethnopharmacology*, **197**: 257–265.

Khettal, B., Kadri, N., Tighilet, K., Adjebli, A., Dahmoune, F., dan Maiza-Benabdeslam, F., 2017. Phenolic compounds from Citrus leaves: antioxidant activity and enzymatic browning inhibition. *Journal of Complementary and Integrative Medicine*, **14**: 20160030.

Kiem, P.V., Cuong, N.X., Nhiem, N.X., Hang, D.T.T., Nam, N.H., Ban, N.K., dkk., 2011. Chemical Constituents and Antioxidant Activity of Ficus callosa. *Natural Product Communications*, **6**: 1934578X1100600.

Koudouvo, K., Karou, S.D., Ilboudo, D.P., Kokou, K., Essien, K., Aklikokou, K., dkk., 2011. In vitro antiplasmodial activity of crude extracts from Togolese medicinal plants. *Asian Pacific Journal of Tropical Medicine*, **4**: 129–132.

Kovendan, K., Murugan, K., Panneerselvam, C., Aarthi, N., Kumar, P.M., Subramaniam, J., dkk., 2012. Antimalarial activity of Carica papaya (Family: Caricaceae) leaf extract against Plasmodium falciparum. *Asian Pacific Journal of Tropical Disease*, **2**: S306–S311.

Kristanti, N.K., Aminah, N. siti, Tanjung, M., dan Kurniadi, B., 2008. *Buku Ajar Fitokimia*. Airlangga University Press.

Kubo, M., Yatsuzuka, W., Matsushima, S., Harada, K., Inoue, Y., Miyamoto, H., dkk., 2016. Antimalarial Phenanthroindolizine Alkaloids from Ficus septica. *CHEMICAL & PHARMACEUTICAL BULLETIN*, **64**: 957–960.

Kumar, R., Mohanakrishnan, D., Sharma, A., Kaushik, N.K., Kalia, K., Sinha, A.K., dkk., 2010. Reinvestigation of structure–activity relationship of methoxylated chalcones as antimalarials: Synthesis and evaluation of 2,4,5-trimethoxy substituted patterns as lead candidates derived from abundantly available natural β-asarone. *European Journal of Medicinal Chemistry*, **45**: 5292–5301.

Kumar, R., Sharma, Saurabh, Sharma, Shivani, Kumari, A., Kumar, D., Nadda, G., dkk., 2016. Chemical composition, cytotoxicity and insecticidal activities of Acorus calamus accessions from the western Himalayas. *Industrial Crops and Products*, **94**: 520–527.

Kumari, K.D.K.P., Weerakoon, T.C.S., Handunnetti, S.M., Samarasinghe, K., dan Suresh, T.S., 2014. Anti-inflammatory activity of dried flower extracts of Aegle marmelos in Wistar rats. *Journal of Ethnopharmacology*, **151**: 1202–1208.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Kumolosasi, E., Soemardji, A.A., dan Farmakognosi-Fitokimia, U., 2004. Efek Teratogenik Ekstrak Etanol Kulit Batang Pule (Alstonia scholaris R.Br) pada Tikus Wistar. *Jurnal Matematika dan Sains*, **9**: 5.

Kurniawan, B., Puspita, L., Kurnia, Y., Husna, I., Rahmat, A., Umam, R., dkk., 2020. Utilization of Stem Bark and Leaves of Kluwih (Artocarpus Altilis Park) as an Anti-Mosquito Repellent: A Case Study of Total Mosquito Mortality (Anopheles Sp). *Indonesian Journal of Science and Technology*, **5**: 421–439.

Kusuma, F.R. dan Zaky, B.M., 2005. *Tumbuhan Liar Berkhasiat Obat*. AgroMedia.

Kusumaningtyas, R., Laily, N., dan Limandha, P., 2015. Potential of Ciplukan (Physalis Angulata L.) as Source of Functional Ingredient. *Procedia Chemistry*, **14**: 367–372.

Kuswata Kartawinata, 2010. 'Dua Abad Mengungkap Kekayaan Flora Dan Ekosistem Indonesia', . Dipresentasikan pada Sarwono Prawirohardjo Memorial Lecture X, LIPI, Jakarta.

Lahbib, K., Dabbou, S., Bok, S.E., Pandino, G., Lombardo, S., dan Gazzah, M.E., 2017. Variation of biochemical and antioxidant activity with respect to the part of Capsicum annuum fruit from Tunisian autochthonous cultivars. *Industrial Crops and Products*, **104**: 164–170.

Laily, N., Kusumaningtyas, R.W., Sukarti, I., dan Rini, M.R.D.K., 2015. The Potency of Guava Psidium Guajava (L.) Leaves as a Functional Immunostimulatory Ingredient. *Procedia Chemistry*, **14**: 301–307.

Liu, Y., Liu, J., dan Zhang, Y., 2019. Research Progress on Chemical Constituents of Zingiber officinale Roscoe. *BioMed Research International*, **2019**: 1–21.

Lotankar, A.R., Momin, A.J., Wankhede, S., dan Sharma, J.B., 2016. Anti-inflammatory Activity of an Ornamental Plant Plumeria Obtusa. *Advances in Pharmacology and Pharmacy*, **4**: 23–26.

Luhurningtyas, F.P., 2013. Aktivitas Larvasida Fraksi Nonpolar Ekstrak Etanol Daun Inggu (Ruta Angustifolia L.) terhadap Larva Nyamuk Anopheles aconitus dan Anopheles maculatus beserta Profil Kromatografinya 17.

Luiz-Ferreira, A., Cola, M., Barbastefano, V., Farias-Silva, E., Calvo, T.R., de Almeida, A.B.A., dkk., 2011. Indigofera suffruticosa Mill as new source of healing agent: Involvement of prostaglandin and mucus and heat shock proteins. *Journal of Ethnopharmacology*, **137**: 192–198.

M. F. Nethengwe, 2012. Larvicidal, antipyretic and antiplasmodial activity of some Zulu medicinal plants. *Journal of Medicinal Plants Research*, **6**: .

M., S., K., B., M., B., S., J., S., A., A., S., dkk., 2017. Obtaining titanium dioxide nanoparticles with spherical shape and antimicrobial properties using M. citrifolia leaves extract by hydrothermal method. *Journal of Photochemistry and Photobiology B: Biology*, **171**: 117–124.

Mabubu, J.I., Osman, N.A., Elhussein, S.A., dan Hua, H., 2015. Evaluation of Antimalarial Activity of Sesquiterpene Lactones of Wild Sudanese Basil (Ocimum basilicum L.) through Their in vitro Inhibition of Dihydrofolate Reductase (DHFR). *Journal of Biology*, **5**: 8.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
Tenggara Timur (NTT)**
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Mambu, L. dan Grellier, P., 2007. Antimalarial Compounds from Traditionally Used Medicinal Plants, dalam: *Bioactive Natural Products: Detection, Isolation, and Structural Determination, 2nd Edition*.

Manga, A., Gassama, A., Diatta, K., Bassène, E., Cojean, A., dan Cavé, C., 2018. Antiplasmodial Activity of Extracts of Khaya Senegalensis (Ders.) A. Jus (Meliaceae) and Melia Azedarach L., Plants of Senegalese Traditional Medicine. *International Journal of Pharmaceutical Sciences and Research*, **9**: .

Manurung, H., SARI, R.K., SYAFII, W., CAHYANINGSIH, U., dan EKASARI, W., 2019. Antimalarial Activity and Phytochemical Profile of Ethanolic and Aqueous Extracts of Bidara Laut (Strychnos ligustrina Blum) Wood. 목재공학, **47**: 587–596.

Maragatha, M. dan Joseph, D., 2019. Larvicidal evaluation of aged and fresh leaf extract of Solanum lycopersicum esculentum. *International Journal of Mosquito Research*, **6**: .

Marliana, E., Hairani, R., Tjahjandarie, T.S., dan Tanjung, M., 2018. Antiplasmodial activity of flavonoids from Macaranga tanarius leaves. *IOP Conference Series: Earth and Environmental Science*, **144**: 012011.

Marliana, E., Ruga, R., Hairani, R., Tjahjandarie, T.S., dan Tanjung, M., 2019. Antioxidant activity of flavonoid constituents from the leaves of Macaranga tanarius. *Journal of Physics: Conference Series*, **1277**: 012014.

Maslachah, L. dan Sugihartuti, R., 2018. Potency Syzygium cumini L as adjuvant therapy on mice model malaria. *Iraqi Journal of Veterinary Sciences*, **23**: .

Maslachah, L., Sugihartuti, R., dan Wahyuni, R.S., 2019. Hematologic changes and splenic index on malaria mice models given Syzygium cumini extract as an adjuvant therapy. *Veterinary World*, **12**: 106–111.

Maslachah, L., Suwanti, L.T., Primarizky, H., Widiyatno, T.V., Kusuma, D.F.R., Winanda, R., dkk., 2020. Histomorphological Studies of the Organs of Malaria Mice Model After Administration Combination of Leaf and Stem Bark Extract of Syzygium cumini with Chloroquine. *Indian Journal of Forensic Medicine & Toxicology*, **14**: .

Matsui, M., Kumar-Roine, S., Darius, H.T., Chinain, M., Laurent, D., dan Pauillac, S., 2009. Characterisation of the anti-inflammatory potential of Vitex trifolia L. (Labiatae), a multipurpose plant of the Pacific traditional medicine. *Journal of Ethnopharmacology*, **126**: 427–433.

Matsumoto, T., Kobayashi, T., Ishida, K., Hirasawa, Y., Morita, H., Honda, T., dkk., 2010. Vasodilator Effect of Cassiarin A, a Novel Antiplasmodial Alkaloid from Cassia siamea, in Rat Isolated Mesenteric Artery. *Biological and Pharmaceutical Bulletin*, **33**: 844–848.

Mbatchou, V.C., Tchouassi, D.P., Dickson, R.A., Annan, K., Mensah, A.Y., Amponsah, I.K., dkk., 2017. Mosquito larvicidal activity of Cassia tora seed extract and its key anthraquinones aurantio-obtusin and obtusin. *Parasites & Vectors*, **10**: 562.

Medoatinsa, S.E., Dossa, C.P.A., Viwami, F., Bogninou, G.S.R., Noudogbessi, J.P., Lagnika, L., dkk., 2015. In Vitro Antiplasmodial and Antioxidant Activities

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

of Ethanolic And Hydroethanolic Extracts of Hyptis suaveolens. *World Journal of Pharmacy and Pharmaceutical Sciences*, **4**: 12.

Mehrotra, S., Mishra, K.P., Maurya, R., Srimal, R.C., Yadav, V.S., Pandey, R., dkk., 2003. Anticellular and immunosuppressive properties of ethanolic extract of Acorus calamus rhizome. *International Immunopharmacology*, **3**: 53–61.

Melariri, P., Campbell, W., Etusim, P., dan Smith, P., 2011. Antiplasmodial Properties and Bioassay-Guided Fractionation of Ethyl Acetate Extracts from Carica papaya Leaves. *Journal of Parasitology Research*, **2011**: 1–7.

Milner, D.A., 2018. Malaria Pathogenesis. *Cold Spring Harbor Perspectives in Medicine*, **8**: a025569.

Mirabeau, T. dan Samson, E., 2012. Effect of Allium cepa and Allium sativum on some immunological cells in rats. *African Journal of Traditional, Complementary and Alternative Medicines*, **9**: 374–379.

Mohd Abd Razak, M.R., Afzan, A., Ali, R., Amir Jalaluddin, N.F., Wasiman, M.I., Shiekh Zahari, S.H., dkk., 2014a. Effect of selected local medicinal plants on the asexual blood stage of chloroquine resistant Plasmodium falciparum. *BMC Complementary and Alternative Medicine*, **14**: 492.

Mohd Abd Razak, M.R., Afzan, A., Ali, R., Amir Jalaluddin, N.F., Wasiman, M.I., Shiekh Zahari, S.H., dkk., 2014b. Effect of selected local medicinal plants on the asexual blood stage of chloroquine resistant Plasmodium falciparum. *BMC Complementary and Alternative Medicine*, **14**: 492.

Moreira, J., Klein-Júnior, L.C., Filho, V.C., dan Buzzi, F. de C., 2013. Anti-hyperalgesic activity of corilagin, a tannin isolated from Phyllanthus niruri L. (Euphorbiaceae). *Journal of Ethnopharmacology*, **146**: 318–323.

Morita, H., Hirasawa, Y., Miyama, S., Kawahara, N., Goda, Y., Rahman, A., dkk., 2009. Indole Alkaloids from the Leaves of Alstonia scholaris. *HETEROCYCLES*, **79**: 1107.

Mrunal.K., S., Vaya, R., Singhvi, I., Dwivedi, J., dan Mahatma, O.P., 2009. Antiinflammatory and Antipyretic Activities Leaves of Calotropis Gigantea (Linn). *Journal of Global Pharma Technology*, **2**: .

Mulia, E.P.B., Tantular, I.S., dan Mughini, A., 2012. In Vitro Antimalarial Activity of Belimbing Wuluh (Averrhoa Bilimbi) Leaves Extract on Plasmodium falciparum. *Folia Medica Indonesiana*, **48**: .

Mulisa, E., Girma, B., Tesema, S., Yohannes, M., Zemene, E., dan Amelo, W., 2018. Evaluation of In vivo Antimalarial Activities of leaves of Moringa oleifera against Plasmodium berghei in Mice. *Jundishapur Journal of Natural Pharmaceutical Products*, **13**: .

Murnigsih, T., Subeki, Matsuura, H., Takahashi, K., Yamasaki, M., Yamato, O., dkk., 2005. Evaluation of the Inhibitory Activities of the Extracts of Indonesian Traditional Medicinal Plants against Plasmodium falciparum and Babesia gibsoni. *Journal of Veterinary Medical Science*, **67**: 829–831.

Musa, N., Banerjee, S., Maspalma, G.A., Usman, L.U., dan Hussaini, B., 2021. Assessment of the phytochemical, antioxidant and larvicidal activity of essential oil extracted from Simpleleaf Chastetree [vitex trifolia] leaves

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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obtained from Ganye Local Government, Adamawa State-Nigeria. *Materials Today: Proceedings*, S2214785321024275.

Mutalib, N.H.A., Samat, Y.T., dan Sukardi, S., 2014. Skeletal Malformation of Fetuses from Pregnant **3**: 7.

Muthukrishnan, S., 2017. Pharmacognostical investigation, phytochemical studies of Schleichera oleosa (lour) oken leaves. *Int. J. Res. Pharm. Sci*, **8**: 11.

Muti'ah, R., 2013. Penyakit Malaria dan Mekanisme Kerja Obat-Obat Antimalaria. *ALCHEMY*, **2**: .

Mutmainah, Susilowati, R., Rahmawati, N., dan Nugroho, A.E., 2014. Gastroprotective effects of combination of hot water extracts of turmeric (Curcuma domestica L.), cardamom pods (Ammomum compactum S.) and sembung leaf (Blumea balsamifera DC.) against aspirin–induced gastric ulcer model in rats. *Asian Pacific Journal of Tropical Biomedicine*, **4**: S500–S504.

Nahak, G. dan Sahu, R.K., 2011. Phytochemical Evaluation and Antioxidant activity of Piper cubeba and Piper nigrum. *Journal of Applied Pharmaceutical Science*, **1**: 5.

Nakinchat, S. dan Somsak, V., 2017. A Pilot Study on Antimalarial Effects of Moringa oleifera Leaf Extract in Plasmodium berghei Infection in Mice. *Walailak Journal of Science and Technology (WJST)*, **15**: 151–156.

Nessa, F., Ismail, Z., dan Mohamed, N., 2010. Xanthine oxidase inhibitory activities of extracts and flavonoids of the leaves of Blumea balsamifera. *Pharmaceutical Biology*, **48**: 1405–1412.

Nga, N., 2019. Phytochemical Screening and Evaluation of Antioxidant Power of Hydro-Ethanolic and Aqueous Leaves Extracts of Annona Muricata Linn (Soursop). *Health Sciences and Disease*, **20**: 5.

Niazi, J., Singh, P., Bansal, Y., dan Goel, R.K., 2009. Anti-inflammatory, analgesic and antipyretic activity of aqueous extract of fresh leaves of Coccinia indica. *Inflammopharmacology*, **17**: 239–244.

Ningsih, I.Y., 2017. PENCARIAN TUMBUHAN OBAT YANG BERPOTENSI SEBAGAI ANTIMALARIA BERDASARKAN PENGETAHUAN ETNOMEDISIN 10.

Nsonde Ntandou, G.F., Banzouzi, J.T., Mbatchi, B., Elion-Itou, R.D.G., Etou-Ossibi, A.W., Ramos, S., dkk., 2010. Analgesic and anti-inflammatory effects of Cassia siamea Lam. stem bark extracts. *Journal of Ethnopharmacology*, **127**: 108–111.

Nurcholis, W., Ambarsari, L., Sari, N.L.P.E.K., dan Darusman, L.K., 2012. 'Curcuminoid Contents, Antioxidant and Anti-Inflammatory Activities of Curcuma xanthorrhiza RoxB. and Curcuma domestica Val. Promising Lines From Sukabumi of Indonesia', , dalam: *Prosiding Seminar Nasional Kimia Unesa 2012*. Surabaya.

Nurhayati, M., Widiyantoro, A., dan Ardiningsih, P., 2017. Senyawa Terpenoid dari Fraksi Diklorometana Daun Tanaman Andong (Cordyline Fruticosa) dan Aktivitas Antimalarianya terhadap Plasmodium falciparum. *JKK, Tahun 2017*, **6**: 5.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
Tenggara Timur (NTT)**
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Oderinde, O., Olaitan, O., shagari, A. bawa, Bashar, K. muhammad, dan Bilbis, F., 2016. Phytochemical Analysis and In-Vitro Screening of Citrus Aurantifolia Leaf Extracts for Schizonticidal Activity on Clinical Isolates of Plasmodium falciparum. *The Beam: Journal of Arts & Science*, **9**: .

Oduor, P.L., Muleke, C.I., dan Shivairo, S.R., 2018. In Vitro Antiplasmodial Activities of Crude Extracts of Carissa edulis, Azadirachta indica, Cassia siamea and Harrisonia abyssinica against Plasmodium falciparum. *Egerton J. Sci. & Technol*, **16**: .

Okello, D. dan Kang, Y., 2019. Exploring Antimalarial Herbal Plants across Communities in Uganda Based on Electronic Data. *Evidence-Based Complementary and Alternative Medicine*, **2019**: 1–27.

Omulokoli, E., Khan, B., dan Chhabra, S.C., 1997. Antiplasmodial activity of four Kenyan medicinal plants. *Journal of Ethnopharmacology*, **56**: 133–137.

Onyegbule, F.A., Bruce, S.O., Onyekwe, O.N., Onyealisi, O.L., dan Okoye, P.C., 2019. Evaluation of the in vivo antiplasmodial activity of ethanol leaf extract and fractions of Jatropha gossypifolia in Plasmodium berghei infected mice. *Journal of Medicinal Plants Research*, **13**: 269–279.

Orabi, M.A. dan Orabi, E.A., 2016. Antiviral and antioxidant activities of flavonoids of Ficus virens: Experimental and theoretical investigations. *Journal of Pharmacognosy and Phytochemistry*, **5**: 9.

Osman, H., Rahim, A., Isa, N., dan Bakhir, N., 2009. Antioxidant Activity and Phenolic Content of Paederia foetida and Syzygium aqueum. *Molecules*, **14**: 970–978.

Palakkod Govindan, V., Panduranga, A.N., dan Krishna Murthy, P., 2016. Assessment of in vivo antimalarial activity of arteether and garlic oil combination therapy. *Biochemistry and Biophysics Reports*, **5**: 359–364.

Palanisamy, U.D., Ling, L.T., Manaharan, T., Sivapalan, V., Subramaniam, T., Helme, M.H., dkk., 2011. Standardized extract of Syzygium aqueum: a safe cosmetic ingredient: Standardized extract of Syzygium aqueum. *International Journal of Cosmetic Science*, **33**: 269–275.

Palit, P., Mandal, S.C., dan Bhunia, B., 2016. Total steroid and terpenoid enriched fraction from Euphorbia neriifolia Linn offers protection against nociceptive-pain, inflammation, and in vitro arthritis model: An insight of mechanistic study. *International Immunopharmacology*, **41**: 106–115.

Patel, P. dan Asdaq, S.M.B., 2010. Immunomodulatory activity of methanolic fruit extract of Aegle marmelos in experimental animals. *Saudi Pharmaceutical Journal*, **18**: 161–165.

Pereañez, J.A., Núñez, V., Rojano, B., dan Lobo-Echeverri, T., 2013. Inhibitory effects of Swietenia macrophylla on myotoxic phospholipases A2. *Revista Brasileira de Farmacognosia*, **23**: 885–894.

Pietrovski, E.F., Magina, M.D.A., Gomig, F., Pietrovski, C.F., Micke, G.A., Barcellos, M., dkk., 2010. Topical anti-inflammatory activity of Eugenia brasiliensis Lam. (Myrtaceae) leaves. *Journal of Pharmacy and Pharmacology*, **60**: 479–487.

Pilotos, J., Ibrahim, K.A., Mowa, C.N., dan Opata, M.M., 2020. Moringa oleifera treatment increases Tbet expression in CD4+ T cells and remediates

UNIVERSITAS GADJAH MADA
Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa Tenggara Timur (NTT)
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

immune defects of malnutrition in Plasmodium chabaudi-infected mice. *Malaria Journal*, **19**: 62.

Prabowo, A., 2004. *Malaria: mencegah dan mengatasinya*. Puspa Swara, Jakarta.

Pradeep, K., Mohan, C.V.R., Gobianand, K., dan Karthikeyan, S., 2007. Effect of Cassia fistula Linn. leaf extract on diethylnitrosamine induced hepatic injury in rats. *Chemico-Biological Interactions*, **167**: 12–18.

Prakash, C., Kubera, S., Kumarand, S., dan Sree, P.C.S., 2019. Effect of Repellency on Mosquito Nets using Citrus Peel Extract. *International Journal of Innovative Technology and Exploring Engineering*, **8**: 1531–1535.

Prasetyo, B., Indriani, E.D., Viandika, N., Ilmi, H., Tumewu, L., dan Widyawaruyanti, A., 2021. Activities of Andrographis paniculata (AS201-01) Tablet on Cox-2 and Prostaglandin Expression of Placental of Plasmodium berghei Infected Mice. *Iranian Journal of Parasitology*, .

Purwanto, Y, 2002. 'Studi Etnomedisinal dan Fitofarmakope Tradisional Indonesia', , dalam: *Prosiding Seminar Nasional II Tumbuhan Obat Dan Aromatik*. LIPI, Bogor.

Quinlan, M.B., 2011. Ethnomedicine, dalam: Singer, M. dan Erickson, P.I. (Editor), *A Companion to Medical Anthropology*. Wiley-Blackwell, Oxford, UK, hal. 379–403.

Quintão, N.L.M., Antonialli, C.S., da Silva, G.F., Rocha, L.W., de Souza, M.M., Malheiros, A., dkk., 2012. Aleurites moluccana and its main active ingredient, the flavonoid 2″-O-rhamnosylswertisin, have promising antinociceptive effects in experimental models of hypersensitivity in mice. *Pharmacology Biochemistry and Behavior*, **102**: 302–311.

Quintão, N.L.M., Rocha, L.W., Silva, G.F., Reichert, S., Claudino, V.D., Lucinda-Silva, R.M., dkk., 2014. Contribution of α,β -Amyrenone to the Anti-Inflammatory and Antihypersensitivity Effects of Aleurites moluccana (L.) Willd. *BioMed Research International*, **2014**: 1–11.

Ragasa, C.Y., Ng, V.A.S., Mandia, E.H., Oyong, G.G., dan Shen, C.-C., 2014a. Chemical constituents and cytotoxicity of the leaves of Dysoxylum gaudichaudianum (A. Juss.) Miq. *Der Pharma Chemica*, **6**: 6.

Ragasa, C.Y., Ng, V.A.S., Mandia, E.H., dan Shen, C.-C., 2014b. Chemical constituents of Wrightia pubescens (R.Br.). *Der Pharmacia Lettre*, **6**: 6.

Rain, N., Ridzuan, M., dan Amin, B., 2007. Antiplasmodial properties of some Malaysian medicinal plants. *Tropical Biomedicine*, **24**: 8.

Rajaram, A., Vanaja, G.R., Vyakaranam, P., Rachamallu, A., Reddy, G.V., Anilkumar, K., dkk., 2018. Anti-inflammatory profile of Aegle marmelos (L) Correa (Bilva) with special reference to young roots grown in different parts of India. *Journal of Ayurveda and Integrative Medicine*, **9**: 90–98.

Rajendran, C., Begam, M., Kumar, D., Baruah, I., Gogoi, H.K., Srivastava, R.B., dkk., 2014. Antiplasmodial activity of certain medicinal plants against chloroquine resistant Plasmodium berghei infected white albino BALB/c mice. *Journal of Parasitic Diseases*, **38**: 148–152.

Ramalhete, C., da Cruz, F.P., Mulhovo, S., Sousa, I.J., Fernandes, M.X., Prudêncio, M., dkk., 2014. Dual-stage triterpenoids from an African medicinal plant

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

targeting the malaria parasite. *Bioorganic & Medicinal Chemistry*, **22**: 3887–3890.

Ramalhete, C., Lopes, D., Molnár, J., Mulhovo, S., Rosário, V.E., dan Ferreira, M.-J.U., 2011a. Karavilagenin C derivatives as antimalarials. *Bioorganic & Medicinal Chemistry*, **19**: 330–338.

Ramalhete, C., Lopes, D., Mulhovo, S., Molnár, J., Rosário, V.E., dan Ferreira, M.-J.U., 2010. New antimalarials with a triterpenic scaffold from Momordica balsamina. *Bioorganic & Medicinal Chemistry*, **18**: 5254–5260.

Ramalhete, C., Prudêncio, M., dan Ferreira, M.-J.U., 2011b. Triterpenoids as inhibitors of erythrocytic and liver stages of Plasmodium infections. *Bioorg. Med. Chem.*, **19**: 8.

Ramsay, A. dan Mueller-harvey, I., 2016. Procyanidins from Averrhoa bilimbi fruits and leaves. *Journal of Food Composition and Analysis*, **47**: .

Raskin, I., Ribnicky, D.M., Komarnytsky, S., Ilic, N., Poulev, A., Borisjuk, N., dkk., 2002. Plants and human health in the twenty-first century. *Trends in Biotechnology*, **20**: 522–531.

Reddy, R.C., Vatsala, P.G., Keshamouni, V.G., Padmanaban, G., dan Rangarajan, P.N., 2005. Curcumin for malaria therapy. *Biochemical and Biophysical Research Communications*, **326**: 472–474.

Rocha e Silva, L.F., Ramalhete, C., Nogueira, K.L., Mulhovo, S., Ferreira, M.-J.U., dan Pohlit, A.M., 2015. In vivo evaluation of isolated triterpenes and semi-synthetic derivatives as antimalarial agents. *European Journal of Medicinal Chemistry*, **102**: 398–402.

Sá, M.S., de Menezes, M.N., Krettli, A.U., Ribeiro, I.M., Tomassini, T.C.B., Ribeiro dos Santos, R., dkk., 2011. Antimalarial Activity of Physalins B, D, F, and G. *Journal of Natural Products*, **74**: 2269–2272.

Saha, A., Masud, M.A., Bachar, S.C., Kundu, J.K., Datta, B.K., Nahar, L., dkk., 2007. The Analgesic and Anti-Inflammatory Activities of the Extracts of Phyllanthus reticulatus . in Mice Model. *Pharmaceutical Biology*, **45**: 355–359.

Sahidin, I., 2012. *Mengenal Senyawa Alami: Pembentukan dan Pengelompokan secara Kimia*. Universitas Halu Oleo Press.

Salim, A.A., Garson, M.J., dan Craik, D.J., 2004. New Indole Alkaloids from the Bark of Alstonia scholaris. *Journal of Natural Products*, **67**: 1591–1594.

Saptarini, N. dan Deswati, D., 2015. The Antipyretic Activity of Leaves Extract of Ceiba pentandra Better than Gossypium arboreum. *Journal of Applied Pharmaceutical Science*, **5**: 118–121.

Sashidhara, K.V., Rosaiah, J.N., Tyagi, E., Shukla, R., Raghubir, R., dan Rajendran, S.M., 2009. Rare dipeptide and urea derivatives from roots of Moringa oleifera as potential anti-inflammatory and antinociceptive agents☆. *European Journal of Medicinal Chemistry*, **44**: 432–436.

Satish, P.V.V., Kumari, Ds., dan Sunita, K., 2017. Antiplasmodial efficacy of Calotropis gigantea (L.) against Plasmodium falciparum (3D7 strain) and Plasmodium berghei (ANKA). *Journal of Vector Borne Diseases*, **54**: 215.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Seran, H.J., 2007. *Ema Tetun; Kelangsungan Dan Perubahan Dalam Kebudayaan Dan Kehidupan Sosial Suatu Masyarakat Tradisional Di Pedalaman Pulau Timor, Indonesia Bagian Timur*. Penerbit Gita Kasih, Kupang.

Seyoum, A., Pålsson, K., Kung'a, S., Kabiru, E.W., Lwande, W., Killeen, G.F., dkk., 2002. Traditional use of mosquito-repellent plants in western Kenya and their evaluation in semi-field experimental huts against Anopheles gambiae: ethnobotanical studies and application by thermal expulsion and direct burning. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, **96**: 225–231.

Sharma, V., Paliwal, R., dan Sharma, S., 2011. In Vitro Free Radical Scavenging and Antioxidant Potential of Ethanolic Extract Of Euphorbia neriifolia Linn. *International Journal of Pharmacy and Pharmaceutical Sciences*, **3**: 5.

Sharma, V. dan Singh, M., 2014. Therapeutic Efficacy of Isolated Stigma-5,22 Dien-3-O-B-D-Glucopyranoside and Ethanolic Root Extract Of Operculina Turpethum Against N- Nitrosodimethylamine Induced Hepatopathy in the Liver of Mice: Ultrastructural and Histological Evidences. *International Journal of Pharmacy and Pharmaceutical Sciences*, **6**: 6.

Shofiyullah, M., Muti'ah, R., Hayati, E.K., dan Indradmojo, C., 2016. Identification of Active Compounds Calotropis gigantea Stem Extracts as Antimalarials Agents on Animal Infected Plasmodium berghei. *Journal of Islamic Pharmacy*, **1**: 1.

Sholikhah, E.N. dan Wahyuono, S., 2007. In Vitro and In Vivo Antiplasmodial Activity and Cytotoxicity of Extracts of Phyllanthus Niruri L. Herbs Traditionally Used to Treat Malaria in Indonesia. *SOUTHEAST ASIAN J TROP MED PUBLIC HEALTH*, **38**: 8.

Shuib, N.A., Iqbal, A., Sulaiman, F.A., Razak, I., dan Susanti, D., 2015. Antioxidant and Antibacterial Activities of Ruta angustifolia Extract. *Jurnal Teknologi*, **77**: .

Siburian, R., 2017. *Beta Orang Kupang: Mengenal John Haba Lewat Para Sahabat*. Yayasan Pustaka Obor.

Siddiqui, B.S., Ilyas, F., Rasheed, M., dan Begum, S., 2004. Chemical constituents of leaves and stem bark of Plumeria obtusa. *Phytochemistry*, **65**: 2077–2084.

Simanjuntak, E.J. dan Zulham, 2020. Superoksida Dismutase (Sod) dan Radikal Bebas. *JURNAL KEPERAWATAN DAN FISIOTERAPI (JKF)*, **2**: 124–129.

Singh, V.P. dan Jadhav, D., 2011. *Ethnobotany of Bhil Tribe*. Scientific Publishers.

Sinisgalli, C., Faraone, I., Vassallo, A., Caddeo, C., Bisaccia, F., Armentano, M.F., dkk., 2020. Phytochemical Profile of Capsicum annuum L. cv Senise, Incorporation into Liposomes, and Evaluation of Cellular Antioxidant Activity. *Antioxidants*, **9**: 428.

Sobeh, M., Mahmoud, M.F., Petruk, G., Rezq, S., Ashour, M.L., Youssef, F.S., dkk., 2018. Syzygium aqueum: A Polyphenol- Rich Leaf Extract Exhibits Antioxidant, Hepatoprotective, Pain-Killing and Anti-inflammatory Activities in Animal Models. *Frontiers in Pharmacology*, **9**: 566.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
Tenggara Timur (NTT)**
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Somsak, V., Polwiang, N., dan Chachiyo, S., 2016. In Vivo Antimalarial Activity of Annona muricata Leaf Extract in Mice Infected with Plasmodium berghei. *Journal of Pathogens*, **2016**: 1–5.

Sowndhararajan, K., Hong, S., Jhoo, J.-W., Kim, S., dan Chin, N.L., 2015. Effect of acetone extract from stem bark of Acacia species (A. dealbata, A. ferruginea and A. leucophloea) on antioxidant enzymes status in hydrogen peroxide-induced HepG2 cells. *Saudi Journal of Biological Sciences*, **22**: 685–691.

Stevenson, M.M. dan Riley, E.M., 2004. Innate immunity to malaria. *Nature Reviews Immunology*, **4**: 169–180.

Suhartati, T., Epriyanti, E., Borisha, I., Yandri, Suwandi, J.F., Yuwono, S.D., dkk., 2020. In Vivo Antimalarial Test of Artocarpin and in vitro Antimalarial Test of Artonin M Isolated from Artocarpus. *Revista de Chimie*, **71**: 400–408.

Suresh, D., Nethravathi, P.C., Udayabhanu, Rajanaika, H., Nagabhushana, H., dan Sharma, S.C., 2015. Green synthesis of multifunctional zinc oxide (ZnO) nanoparticles using Cassia fistula plant extract and their photodegradative, antioxidant and antibacterial activities. *Materials Science in Semiconductor Processing*, **31**: 446–454.

Susantiningsih, T., Ridwan, R., Prijanti, A.R., Sadikin, M., dan Freisleben, H.-J., 2012. Schizonticidal effect of a combination of Amaranthus spinosus L. and Andrographis paniculata Burm. f./Nees extracts in Plasmodium berghei-infected mice. *Medical Journal of Indonesia*, **21**: 66.

Syafii, W., Sari, R.K., Cahyanings, U., dan Anisah, L.N., 2016. Antimalarial Activity of the Fractions from Ethanol Extract of Strychnos ligustrina Blume. Wood. *Research Journal of Medicinal Plants*, **10**: 403–408.

Syafii, Wasrin, Sari, R.K., Cahyaningsih, U., dan Anisah, L.N., 2016. Aktivitas Antimalaria Ekstrak Kayu Bidara Laut. *J. Ilmu Teknol. Kayu Tropis*, **14**: 10.

Symington, V., 2012. Malaria- A Global Challenge. *The Society for General Microbiology*, 12.

Taek, M., Prajogo, B., dan Agil, M., 2018a. Plants used in traditional medicine for treatment of malaria by Tetun ethnic people in West Timor Indonesia. *Asian Pacific Journal of Tropical Medicine*, **11**: 630.

Taek, M., Prajogo, B., dan Agil, M., 2018b. Plants used in traditional medicine for treatment of malaria by Tetun ethnic people in West Timor Indonesia. *Asian Pacific Journal of Tropical Medicine*, **11**: 630.

Taek, M.M., D. Tukan, G., E.W. Prajogo, B., dan Agil, M., 2021a. Antiplasmodial Activity and Phytochemical Constituents of Selected Antimalarial Plants Used by Native People in West Timor Indonesia. *Turkish Journal of Pharmaceutical Sciences*, **18**: 80–90.

Taek, M.M., D. Tukan, G., E.W. Prajogo, B., dan Agil, M., 2021b. Antiplasmodial Activity and Phytochemical Constituents of Selected Antimalarial Plants Used by Native People in West Timor Indonesia. *Turkish Journal of Pharmaceutical Sciences*, **18**: 80–90.

Taesotikul, T., Panthong, A., Kanjanapothi, D., Verpoorte, R., dan Scheffer, J.J.C., 2003. Anti-inflammatory, antipyretic and antinociceptive activities of

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Tabernaemontana pandacaqui Poir. *Journal of Ethnopharmacology*, **84**: 31–35.

Tamura, S., Miyoshi, A., Kawano, T., Horii, T., Itagaki, S., dan Murakami, N., 2020. Structure–Activity Relationship of Anti-malarial Allylpyrocatechol Isolated from Piper betle. *Chemical and Pharmaceutical Bulletin*, **68**: 784–790.

Tarkang, P.A., Okalebo, F.A., Siminyu, J.D., Ngugi, W.N., Mwaura, A.M., Mugweru, J., dkk., 2015. Pharmacological evidence for the folk use of Nefang: antipyretic, anti-inflammatory and antinociceptive activities of its constituent plants. *BMC Complementary and Alternative Medicine*, **15**: 174.

Tasdemir, D., 2006. Type II Fatty Acid Biosynthesis, a New Approach in Antimalarial Natural Product Discovery. *Phytochemistry Reviews*, **5**: 99–108.

Tenfen, A., Siebert, D.A., Yamanaka, C.N., Mendes de Córdova, C.M., Scharf, D.R., Simionatto, E.L., dkk., 2016. Chemical composition and evaluation of the antimicrobial activity of the essential oil from leaves of Eugenia platysema. *Natural Product Research*, **30**: 2007–2011.

Teng, W.-C., Chan, W., Suwanarusk, R., Ong, A., Ho, H.-K., Russell, B., dkk., 2019. In vitro Antimalarial Evaluations and Cytotoxicity Investigations of Carica papaya Leaves and Carpaine. *Natural Product Communications*, **14**: 1934578X1901400.

Thang, T., Kuo, P.-C., Huang, G.-J., Hung, N., Huang, B.-S., Yang, M.-L., dkk., 2013. Chemical Constituents from the Leaves of Annona reticulata and Their Inhibitory Effects on NO Production. *Molecules*, **18**: 4477–4486.

Thenmozhi, S. dan Rajan, S., 2015. GC-MS analysis of bioactive compounds in Psidium guajava leaves. *Journal of Pharmacognosy and Phytochemistry*, **3**: 5.

Tine, Y., Diallo, A., Diop, A., Costa, J., Boye, C.S.B., Wélé, A., dkk., 2020. The Essential oil of Eucalyptus alba L. Growing on the Salt Zone of Fatick (Senegal) as a Source of 1,8 Cineole and Their Antibacterial Activity. *Journal of Drug Delivery and Therapeutics*, **10**: 140–143.

Tona, K. Mesia, N. P. Ngimbi, B. Ch, L., 2001. In-vivo antimalarial activity of Cassia occidentalis , Morinda morindoides and Phyllanthus niruri. *Annals of Tropical Medicine And Parasitology*, **95**: 47–57.

Tuan Anh, H.L., Kim, D.-C., Ko, W., Ha, T.M., Nhiem, N.X., Yen, P.H., dkk., 2017. Anti-inflammatory coumarins from Paramignya trimera. *Pharmaceutical Biology*, **55**: 1195–1201.

Udonkang, M.I., Eluwa, M.A., Enun, B.K., Inyang-etoh, P.C., dan Inyang, I.J., 2018. Studies on Antimalarial Activity and Liver Histopathological Changes of Artocarpus Altilis on Plasmodium berghei Infected Mice. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*, **4**: .

Umamaheswari, M. dan Chatterjee, T., 2008. In vitro antioxidant activities of the fractions of Coccinia grandis l. leaf extract. *African Journal of Traditional, Complementary and Alternative Medicines*, **5**: 61–73.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Uraku, A., Okaka, A., Ibiam, U., Agbafor, K., Obasi, N., Ajah, P., dkk., 2015. Antiplasmodial Activity of Ethanolic Leaf Extracts of Spilanthes uliginosa, Ocimum basilicum (Sweet Basil), Hyptis spicigera and Cymbopogon citratus on Mice Exposed to Plasmodium berghei Nk 65. *International Journal of Biochemistry Research & Review*, **6**: 28–36.

Valdés, A.F.-C., Martínez, J.M., Lizama, R.S., Gaitén, Y.G., Rodríguez, D.A., dan Payrol, J.A., 2010. In vitro antimalarial activity and cytotoxicity of some selected cuban medicinal plants. *Revista do Instituto de Medicina Tropical de São Paulo*, **52**: 197–201.

Vekariya, S., Nishteswar, K., Patel, B., dan Nariya, M., 2016. Evaluation of analgesic and antipyretic activities of Mahanimba (Melia azedarach Linn.) leaf and root powder. *AYU (An international quarterly journal of research in Ayurveda)*, **37**: 140.

Velsankar, K., R.M., A.K., R., P., V., M., dan Sudhahar, S., 2020. Green synthesis of CuO nanoparticles via Allium sativum extract and its characterizations on antimicrobial, antioxidant, antilarvicidal activities. *Journal of Environmental Chemical Engineering*, **8**: 104123.

Vyas, A., Bhargava, S., Bhargava, P., Shukla, S.S., Pandey, R., dan Bhadauria, R.S., 2011. Evaluation of Antipyretic Potential of Aegle marmelos (L.) Correa Leaves. *Orient. J. Chem.*, **27**: 6.

Wang, Y., Shen, J., Chan, Y., dan Ho, W., 2018. Identification and Growth Inhibitory Activity of the Chemical Constituents from Imperata Cylindrica Aerial Part Ethyl Acetate Extract. *Molecules*, **23**: 1807.

Widyawaruyanti, A., Devi, A.P., Fatria, N., Tumewu, L., Tantular, I.S., dan Hafid, A.F., 2014. In Vitro Antimalarial Activity Screening of Several Indonesian Plants Using HRP2 Assay. *International Journal of Pharmacy and Pharmaceutical Sciences*, **6**: 4.

Wijayakusuma, P.H.H., 2008. *Ramuan Lengkap Herbal Taklukkan Penyakit*. Niaga Swadaya, Jakarta.

WindiyartI, D., 2017. Tradisi, Agama, Dais Modertosasi dalam Perkembangain Kebudayaan Timor. *Sabda : Jurnal Kajian Kebudayaan*, **1**: 36.

Wiya, C., Saenphet, K., Saenphet, S., dan Buncharoen, W., 2018. In vitro analysis of antispasmodic activity of ethanolic stem extracts of Uvaria rufa Blume and Anomianthus dulcis (Dunal) J. Sinclair on excised rat's ileum. *Comparative Clinical Pathology*, **27**: 295–299.

Wong, S.K., Lim, Y.Y., Abdullah, N.R., dan Nordin, F.J., 2011. Assessment of antiproliferative and antiplasmodial activities of five selected Apocynaceae species. *BMC Complementary and Alternative Medicine*, **11**: 3.

World Health Organization (Editor), 2009. *Medicinal Plants in Papua New Guinea: Information on 126 Commonly Used Medicinal Plants in Papua New Guinea*. World Health Organization, Western Pacific Region, Manila, Philippines.

Wu, P., Song, Z., Wang, X., Li, Ying, Li, Yuhao, Cui, J., dkk., 2020. Bioactive triterpenoids from Lantana camara showing anti-inflammatory activities in vitro and in vivo. *Bioorganic Chemistry*, **101**: 104004.

UNIVERSITAS
GADJAH MADA
**Narrative Review: Studi Etnomedisin, Kandungan Kimia, dan Mekanisme Aksi Tanaman Antimalaria di Nusa
Tenggara Timur (NTT)**
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Universitas Gadjah Mada, 2021 | Diunduh dari http://etd.repository.ugm.ac.id/

Yamaguchi, M., Yahagi, N., Kato, H., Takano, F., dan Ohta, T., 2010. Capsicum extract and its constituents modulated the production of immunoglobulins in Peyer's patch cells ex vivo. *Journal of Functional Foods*, **2**: 255–262.

Yamthe, L., Fokou, P., Mbouna, C., Keumoe, R., Ndjakou, B., Djouonzo, P., dkk., 2015a. Extracts from Annona Muricata L. and Annona Reticulata L. (Annonaceae) Potently and Selectively Inhibit Plasmodium Falciparum. *Medicines*, **2**: 55–66.

Yamthe, L., Fokou, P., Mbouna, C., Keumoe, R., Ndjakou, B., Djouonzo, P., dkk., 2015b. Extracts from Annona Muricata L. and Annona Reticulata L. (Annonaceae) Potently and Selectively Inhibit Plasmodium Falciparum. *Medicines*, **2**: 55–66.

Yang, J., Li, S., Xie, C., Ye, H., Tang, H., Chen, L., dkk., 2013. Anti-inflammatory activity of ethyl acetate fraction of the seeds of Brucea Javanica. *Journal of Ethnopharmacology*, **147**: 442–446.

Yang, Y., Xie, H., Jiang, Y., dan Wei, X., 2020. Flavan-3-ols and 2-diglycosyloxybenzoates from the leaves of Averrhoa carambola. *Fitoterapia*, **140**: 104442.

Zaid, O.I., Abd Majid, R., Sabariah, M.N., Hasidah, M.S., Al-Zihiry, K., Yam, M.F., dkk., 2015. Andrographolide effect on both Plasmodium falciparum infected and non infected RBCs membranes. *Asian Pacific Journal of Tropical Medicine*, **8**: 507–512.

Zeleke, G., Kebebe, D., Mulisa, E., dan Gashe, F., 2017. In Vivo Antimalarial Activity of the Solvent Fractions of Fruit Rind and Root of Carica papaya Linn (Caricaceae) against Plasmodium berghei in Mice. *Journal of Parasitology Research*, **2017**: 1–9.

Zia-Ul-Haq, M., Ćavar, S., Qayum, M., Khan, I., dan Ahmad, S., 2013. Chemical composition and antioxidant potential of Acacia leucophloea Roxb. *Acta Botanica Croatica*, **72**: 133–144.