

DAFTAR PUSTAKA

- Abas, F., Lajis, N.H., Shaari, K., Israf, D.A., Stanslas, J., Yusuf, U.K., dkk., 2005. A Labdane Diterpene Glucoside from the Rhizomes of *Curcuma mangga*. *Journal of Natural Products*, **68**: 1090–1093.
- Abbasalipourkabir, R., Dehghan, A., Salehzadeh, A., Shamsabadi, F., dkk., 2010. Induction of mammary gland tumor in female SpragueDawley rats with LA7 cells. *Afr. J. Biotechnol*, **9**: 4491-4498.
- Aboofazeli, R., 2010. Nanometric-scaled emulsions (nanoemulsions). *Iranian journal of pharmaceutical research*, **9**: 325–326.
- Ali, H.H. dan Hussein, A.A., 2017. Oral solid self-nanoemulsifying drug delivery systems of candesartan citexetil: formulation, characterization and in vitro drug release studies. *AAPS Open*, **3**: 6.
- Arpi, N., 2013. Profil Medium Chain Fatty Acids (MCFA) dan Sifat Kimia Minyak Kelapa (Virgin Coconut Oil/VCO, Minyak Simplah, Pliek U, Klentik, dan Kopra) Dibandingkan Dengan Minyak Sawit. *SAGU*, **12**: 23-31.
- Arpintasari, A., Wuryanti, W., dan Rahmanto, W.H., 2008. Isolasi dan Uji Potensi L-Asparaginase dari Rimpang Kunyit Putih (*Curcuma mangga* Vall) terhadap Leukimia Tipe K562. *Jurnal Kimia Sains dan Aplikasi*, **11**: 57–62.
- Astuti, E., 2015. 'Selektivitas dan mekanisme molekuler antikanker ekstrak aktif rimpang *Curcuma mangga* Val.'. Universitas Gadjah Mada, Yogyakarta.
- Astuti, E., Sunarminingsih, R., dan Jenie, U.A., 2014. Impact of *Curcuma mangga* Val. Rhizome Essential Oil to p53, Bcl-2, H-Ras and Caspase-9 expression of Myeloma Cell Line. *Indonesian Journal of Biotechnology*, **19**: 23–32.
- Bandyopadhyay, S., Katare, O.P., Singh, B., 2012. Optimized self nano-emulsifying systems of ezetimibe with enhanced bioavailability potential using long chain and medium chain triglycerides. *Colloids and Surfaces B: Biointerfaces*, **100**: 50–61.
- Bazm, M.A., Naseri, L., Khazaei, M., 2018. Methods of inducing breast cancer in animal models: a systematic review. *WCRJ*, **5**: 1-17.
- Begam, A.J., Jubie, S., Nanjan, M.J., 2017. Estrogen receptor agonists/antagonists in breast cancer therapy: A critical review. *Bioorganic Chemistry*.
- Bhatt, P. dan Madhav, S., 2011. A Detailed Review on Nanoemulsion Drug Delivery System. *IJPSR*, **2**: 2482-2489.
- Bishayee, A., Mandal, A., Thoppil, R.J., Darvesh, A.S., dan Bhatia, D., 2013. Chemopreventive effect of a novel oleanane triterpenoid in a chemically

induced rodent model of breast cancer: Prevention of breast cancer by a synthetic triterpenoid. *International Journal of Cancer*, **133**: 1054–1063.

- BPOM, 2017. *Serial The Power of Obat Asli Indonesia: Temu Mangga Curcuma Mangga Valeton Dan Zipp*. BPOM, Direktorat Obat Asli Indonesia, Jakarta.
- Cassali, G.D., Lavalle, G.E., Ferreira, E., Estrela-Lima, A., Nardi, A.B.D., Ghever, C., dkk., 2014. Consensus for the Diagnosis, Prognosis and Treatment of Canine Mammary Tumors. *Braz J Vet Pathol*, **7**: 38 – 69.
- Cherniakov, I., Domb, A.J., dan Hoffman, A., 2015. Self-nano-emulsifying drug delivery systems: an update of the biopharmaceutical aspects. *Expert Opinion on Drug Delivery*, **12**: 1121–1133.
- Chintalapudi, R., Murthy, T.E.G.K., Lakshmi, Kr., dan Manohar, Gg., 2015. Formulation, optimization, and evaluation of self-emulsifying drug delivery systems of nevirapine. *International Journal of Pharmaceutical Investigation*, **5**: 205.
- Choudhury, H., Gorain, B., Tekade, R.K., Pandey, M., Karmakar, S., dan Pal, T.K., 2017. Safety against nephrotoxicity in paclitaxel treatment: Oral nanocarrier as an effective tool in preclinical evaluation with marked *in vivo* antitumor activity. *Regulatory Toxicology and Pharmacology*, **91**: 179–189.
- Cleary, M.P., Grande, J.P., Maihle, N.J., 2004. Effect of high fat diet on body weight and mammary tumor latency in MMTV-TGF- α mice. *International Journal of Obesity*, **28**: 956-962.
- Csiszar, A., Balasubramanian, P., Tarantini, S., Yabluchanskiy, A., dkk., 2019. Chemically induced carcinogenesis in rodent models of aging: assessing organismal resilience to genotoxic stressors in geroscience research. *GeroScience*, **41**:209–227.
- Daher, C.F., Baroody, G.M., Howland, R.J., 2003. Effect of a surfactant, Tween 80, on the formation and secretion of chylomicrons in the rat. *Food and Chemical Toxicology*, **8**.
- Dahham, S.S., Hassan, L.E.A., Ahamed, M.B.K., Majid, A.S.A., 2016. *In vivo* toxicity and antitumor activity of essential oils extract from agarwood (*Aquilaria crassna*). *BMC Complementary and Alternative Medicine*, **16**:236-247.
- Date, A.A., Desai, N., Dixit, R., dan Nagarsenker, M., 2010. Self-nanoemulsifying drug delivery systems: formulation insights, applications and advances. *Nanomedicine*, **5**: 1595–1616.

- Dua, P., Heiland, M.F., Kracen, A.C., dan Deshields, T.L., 2015. Cancer-related hair loss: a selective review of the alopecia research literature. *Psycho-Oncology*.
- Eighmy, J.J., Sharma, A.K., dan Blackshear, P.E., 2018. Mammary Gland, dalam: Boorman's Pathology of the Rat. Elsevier, hal. 369–388.
- Fukushima, S., Tatematsu, M., Takahashi, M., 1974. Combined effect of various surfactants on gastric carcinogenesis in treated with N-methyl-N-nitro-N-nitrosoguanidine. *GANN*, **65**: 371-373.
- Gurpret, K., Singh, S.K., 2018. Review of Nanoemulsion Formulation and Characterization Techniques. *Indian Journal of Pharmaceutical Sciences*, **80**: .
- Hong, G.W., Lee, G.S., Hong S.L., Yaacob, H., 2016. Non-aqueous extracts of Curcuma mangga rhizomes induced cell death in human colorectal adenocarcinoma cell line (HT29) via induction of apoptosis and cell cycle arrest at G0/G1 phase. *Asian Pacific Journal of Tropical Medicine*, **9**: 8-18.
- Imran, A., Qamar, H.Y., Ali, Q., Naeem, H., 2017. Role of Molecular Biology in Cancer Treatment: A Review Article. *Iran J Public Health*, **46**: 1475-1485.
- Irshad, H., 2014. Automated Mitosis Detection in Color and Multi-spectral HighContent Images in Histopathology: Application to Breast Cancer Grading in Digital Pathology. Universite De Grenoble, Perancis.
- Jantan, I. bin, Ahmad, A.S., Ali, N.A.M., Ahmad, A.R., dan Ibrahim, H., 1999. Chemical Composition of the Rhizome Oils of Four *Curcuma* Species from Malaysia. *Journal of Essential Oil Research*, **11**: 719–723.
- Kamazeri, T.S.A.T., Samah, O.A., Taher, M., Susanti, D., dan Qaralleh, H., 2012. Antimicrobial activity and essential oils of *Curcuma aeruginosa*, *Curcuma mangga*, and *Zingiber cassumunar* from Malaysia. *Asian Pacific Journal of Tropical Medicine*, **5**: 202–209.
- Karsono, A.H., Mayasari, O., Tandrasasmita, Tjandrawinata, R.R., 2014. Molecular effects of bioactive fraction of *Curcuma mangga* (DLBS4847) as a downregulator of 5 α -reductase activity pathways in prostatic epithelial cells. *Cancer Management and Research*, **6**: 267-278.
- Kerdelhue, B., Forest, C., Coumou, X., 2016. Dimethyl-Benz(a)anthracene: A mammary carcinogen and a neuroendocrine disruptor. *Biochimie Open*, **3**: 49-55.
- Khasanah, N., 2002. 'Analisis GC-MS dan Uji Sitotoksisitas Ekstrak Minyak Atsiri Rimpang Curcuma mangga Val. Pada HeLa-S3 dan Raji Cell Line'. Universitas Gadjah Mada, Yogyakarta.

- Khudzaifi, M., 2021. 'Autentikasi dan Identifikasi Minyak Atsiri *Curcuma mangga* Val. Serta Studi *Molecular Docking* Senyawa Aktif Antikanker Payudara'. Universitas Gadjah Mada, Yogyakarta.
- Kumar, M., Bishnoi, R.S., Shukla, A.K., dan Jain, C.P., 2019. Techniques for Formulation of Nanoemulsion Drug Delivery System: A Review. *Preventive Nutrition and Food Science*, **24**: 225–234.
- Li, J., Liu, X., Chen, H., Sun, Z., Chen, H., Wang, L., Sun, X., Li, X., 2019. Multi-targeting chemoprevention of Chinese herb formula Yanghe Huayan decoction on experimentally induced mammary tumorigenesis. *BMC Complementary and Alternative Medicine*, **19**: 1-15.
- Luque, R.M., Villa-Osaba, A., L-López, F., Pozo-Salas, A.I., Sánchez-Sánchez, R., dkk., 2016. Lack of cortistatin or somatostatin differentially influences DMBA-induced mammary gland tumorigenesis in mice in an obesity-dependent mode. *Breast Cancer Research*, **18**: 1-15.
- Malek, S.N.A., Lee, G.S., Hong, S.L., Yaacob, H., dkk., 2011. Phytochemical and Cytotoxic Investigations of *Curcuma mangga* Rhizomes. *Molecules*, **16**: 4539-4548.
- Man, Y., Izadjoo, M., Song, G., dan Stojadinovic, A., 2011. *In Situ* Malignant Transformation and Progenitor-Mediated Cell Budding: Two Different Pathways for Breast Ductal and Lobular Tumor Invasion. *Journal of Cancer*, **2**: 401–412.
- Marques, T., Santos-Oliveira, R., Siqueira, L., Cardoso, V., Freitas, Z., Barros, R., dkk., 2018. Development and characterization of a nanoemulsion containing propranolol for topical delivery. *International Journal of Nanomedicine*, **13**: 2827–2837.
- Martien, R., Irianto, I.D.K., Farida, V., dan Sari, P., 2012. Perkembangan teknologi nanopartikel sebagai sistem penghantaran obat. *Majalah Farmaseutik*, Vol. **8**: 12.
- Meiyanto, E., Susilowati, S., dan Tasminatun, S., 2007. Efek kemopreventif ekstrak etanolik *Gynura procumbens* (Lour), Merr pada karsinogenesis kanker payudara tikus. *Majalah Farmasi Indonesia*, **18**: 154-161.
- Moi, L.L.H., Flågeng, M.H., Gjerde, J., Madsen, A., Røst, T.H., Gudbrandsen, O.A., dkk., 2012. Steroid receptor coactivators, HER-2 and HER-3 expression is stimulated by tamoxifen treatment in DMBA-induced breast cancer. *BMC Cancer*, **12**: 247.
- Musazzi, U.M., 2018. Emulsion versus nanoemulsion: how much is the formulative shift critical for a cosmetic product? **8**: 414–421.

- Navale, A.M., 2013. Animal models of cancer: A review. *IJPSR*, **4**: 19-28.
- NCI, 2012. *What You Nedd to Know About Breast Cancer*. U.S. Departement of Health and Human Service.
- Nigade, P.M., Patil, S.L., dan Tiwari, S.S., 2012. SELF EMULSIFYING DRUG DELIVERY SYSTEM (SEDDS): A Review. *International Journal of Pharmacy and Biological Sciences*, **2**: 42-52.
- Nurgali, K., Jagoe, R.T., dan Abalo, R., 2018. Editorial: Adverse Effects of Cancer Chemotherapy: Anything New to Improve Tolerance and Reduce Sequelae? *Frontiers in Pharmacology*, **9**: 1-3.
- Nurrokhman, 2004. 'Efek Antiproliferasi dan Induksi Apoptosis Minyak Atsiri Curcuma mangga Val. pada Epithelial Cervical Cancer Cell Lines (HeLa dan Siha)'. Universitas Gadjah Mada, Yogyakarta.
- Omabe, M., Okoroocha, A.E., 2011. Molecular Basis of Cancer *Initiation*. *International Journal of Biotechnology and Biochemistry*, **7**: 229-238.
- Osaka, T., Nakanishi, T., Shanmugam, S., Takahama, S., Zhang, H., 2009. Effect of surface charge of magnetite nanoparticles on their internalization into breast cancer and umbilical vein endothelial cells. *Colloids and Surfaces B: Biointerfaces*, **71**: 325–330.
- Oser, B.L., Oser, M., 1956. Nutritional studies on rats on diets containing high levels of partial ester emulsifiers I. General plan and procedures; Growth and food utilization. *J. Nutr*, **60**: 367-390.
- Pambuk, C.I.A., Muhammad, F.M., 2018. Cancer Cause: Biological, Chemical and Physical Carcinogens. *Merit Res. J. Med. Med. Sci*, **6**: 303-306.
- Pratiwi, L., Fudholi, A., Martien, R., dan Pramono, S., 2017. Self-nanoemulsifying Drug Delivery System (Snedds) for Topical Delivery of Mangosteen Peels (*Garcinia Mangostana* L.): Formulation Design and In vitro Studies. *Journal of Young Pharmacists*, **9**: 341–346.
- Ramakrishnan, S., Dharmalingam, K., Panchanatham, S.T., Palanivelu, S., 2016. Efficacy of Tridham and 1,2,3,4,6-Penta-O-Galloyl-B-D-Glucose In Reversing Lipid Peroxidation Levels and Mitochondrial Antioxidant Status In 7,12-Dimethylbenzeneanthracene (DMBA) Induced Breast Cancer In Spraguedawley Rats. *Int J Pharm Pharm Sci*, **8**: 288-292.
- Rudmann, D., Cardiff, R., Chouinard, L., Goodman, D., Küttler, K., Marxfeld, H., dkk., 2012. Proliferative and Nonproliferative Lesions of the Rat and Mouse Mammary, Zymbal's, Preputial, and Clitoral Glands. *Toxicologic Pathology*, **40**: 7S-39S.

- Russo, J., 2015. Significance of Rat Mammary Tumors for Human Risk Assessment. *Toxicologic pathology*, **43**: 145-170.
- Safaya, M., Rotliwala, Y.C., 2020. Nanoemulsions: A review on low energy formulation methods, characterization, applications and optimization technique. *Materials Today: Proceedings*, **27**: 454-459.
- Saha, D. dan Hait, M., 2012. An Ontological Design: Two Stage Mouse Skin Carcinogenesis Induced By DMBA and Promoted By Croton Oil. *Asian J. Res. Pharm. Sci.*, **2**: 1-3.
- Sakthi M, Udaya., Lobo f, J.R., Uppuluri, K.B., 2013. Self Nano Emulsifying Drug Delivery Systems for Oral Delivery of Hydrophobic Drugs. *Biomedical & Pharmacology Journal*, **6**: 355-362.
- Salim, M., Susanto, A., dan Stefanus, D., 2014. Terapi Nanopartikel Albumin-Kurkumin Atasi Kanker Payudara Multidrug Resistant. *CONTINUING PROFESSIONAL DEVELOPMENT*, **41**: 710-714.
- Senapati, P.C., Sahoo, S.K., dan Sahu, A.N., 2016. Mixed surfactant based (SNEDDS) self-nanoemulsifying drug delivery system presenting efavirenz for enhancement of oral bioavailability. *Biomedicine & Pharmacotherapy*, **80**: 42–51.
- Sharma, J., Singh, R., dan Goyal, P.K., 2016. Chemomodulatory Potential of Flaxseed Oil Against DMBA/Croton Oil–Induced Skin Carcinogenesis in Mice. *Integrative Cancer Therapies*, **15**: 358–367.
- Singh, Y., Meher, J.G., Raval, K., Khan, F.A., Chaurasia, M., Jain, N.K., dkk., 2017. Nanoemulsion: Concepts, development and applications in drug delivery. *Journal of Controlled Release*, **252**: 28–49.
- Sismindari, S., Sudibyo, R.S., dan Astuti, E., 2004. Cytotoxic Effects of Protein Fraction Isolated From Curcuma mangga Val Rhizomes and Containing Ribosome-Inactivating Proteins on Cancer Cell-Lines and Normal Cell. *Indonesian Journal of Chemistry*, **4**: 206–211.
- Sobinoff, A.P., Bernstein, I.R., McLaughlin, E.A., 2012. All Your Eggs in One Basket: Mechanisms of Xenobiotic Induced Female Reproductive Senescence.
- Solanas, M., Hurtado, A., Costa, I., Moral, R., Menendez, J., Colomer, R., dkk., 2002. Effects of a high olive oil diet on the clinical behavior and histopathological features of rat DMBA-induced mammary tumors compared with a high corn oil diet. *International Journal of Oncology*, **21**: 745-753.

- Sudibyo, R.S., Sudarmanto, B.S.A., Mahdi, L., Khudzaifi, M., 2021. Pharmacophore Mapping and Molecular Docking Analysis of Essential Oil Compounds from Curcuma mangga Val. Rhizome against ER α , and the Cytotoxic Effect on MCF7 Cells. *Indonesian Journal of Pharmacy*.
- Sylvester, P.W., Russell, M., Ip, M.M., Ip, C., 1986. Comparative Effects of Different Animal and Vegetable Fats Fed before and during Carcinogen Administration on Mammary Tumorigenesis, Sexual Maturation, and Endocrine Function in Rats. *Cancer Research*, **46**: 757-762.
- Thakur, A., Walia, M.K., Kumar, S.L.H., 2013. Nanoemulsion in enhancement of bioavailability of poorly soluble drugs: a review. *Pharmacophore*, **4**: 15-25.
- Tjandrawinata, R., Karsono, A.H., dan Tandrasasmita, O.M., 2014. Molecular effects of bioactive fraction of Curcuma mangga (DLBS4847) as a downregulator of 5 α -reductase activity pathways in prostatic epithelial cells. *Cancer Management and Research*, 267.
- Traul, K.A., Driedger, A., Ingle, D.L., Nakhasi, D., 2000. Review of the Toxicologic Properties of Medium-chain Triglycerides. Food and Chemical Toxicology, **38**:79-98.
- Ujilestari, T., Ariyadi, B., Martien, R., Zuprizal, Dono, N.D., 2019, Optimization of self-nanoemulsifying drug delivery systems of lemongrass (*Cymbopogon citratus*) essential oil. *Int J App Pharm*, **11**: 144-149.
- Verlianara, I., 2004. 'Efek in Vitro Minyak Atsiri Curcuma mangga Val. pada Sitotoksitas, Antiproliferatif dan Apoptosis Sel Raji dan Mieloma'. Universitas Gadjah Mada, Yogyakarta.
- Viennois, E., Merlin, D., Gewirtz, A.T., Chassaing, B., 2017. Dietary Emulsifier-Induced Low Grade Inflammation Promotes Colon Carcinogenesis. *Cancer Research*, **77**: 27-40.
- Wahab, I.R.A., Blagojevic, P.D., Radulovic, N.S., dan Boylan, F., 2011. Volatiles of Curcuma mangga Val. & Zizipha (Zingiberaceae) from Malaysia. Chem Biodivers. **8**: 2005-2014.
- Wahgiman, N.A., Salim, N., Rahman, M.B.A., Ashari, S.E., 2019. Optimization of nanoemulsion containing gemcitabine and evaluation of its cytotoxicity towards human fetal lung fibroblast (MRC5) and human lung carcinoma (A549) cells. *International Journal of Nanomedicine*, **14**: 7323–7338.
- Wahyuniari, I.A.I., Arijana, I.G.K.N., Sriwidayani, N.P., Suwito, H., Widayarni, S., dkk., 2020. The Effect of (E)-1-(4'-aminophenyl)-3-phenylprop-2-en-1-one on MicroRNA-18a, Dicer1, and MMP-9 Expressions against DMBA-

- Induced Breast Cancer. *Asian Pacific Journal of Cancer Prevention*, **21**: 1213-1219.
- Wahyuningsih, I., Putranti, W., 2015. Optimasi Perbandingan Tween 80 Dan Polietilenglikol 400 Pada Formula Self Nanoemulsifying Drug Delivery System (SNEDDS) Minyak Biji Jinten Hitam. *PHARMACY*, **12**: 223-241.
- Weerapol, Y., Limmatvapirat, S., Nunthanid, J., dan Srimornsak, P., 2014. Self-Nanoemulsifying Drug Delivery System of Nifedipine: Impact of Hydrophilic– Lipophilic Balance and Molecular Structure of Mixed Surfactants. *AAPS PharmSciTech*, **15**: 456-464.
- WHO, 2020. GLOBOCAN 2020. Diakses Maret 2020
- Widowati, W., Mozef, T., Risdian, C., dan Yellianty, Y., 2013. Anticancer and free radical scavenging potency of Catharanthus roseus, Dendrophthoe petandra, Piper betle and Curcuma mangga extracts in breast cancer cell lines. *Oxidants and Antioxidants in Medical Science*, **2**: 137-142.
- Wong, K.C., Chong, T.C., Chee, S.G., 1999. Essential Oil of *Curcuma mangga* Val. and van Zijp Rhizomes. *Journal of Essential Oil Research*, **11**: 349-351.
- Wong, T.W., Danute, M.D., Juras, S., Wissler, W., 1959. Effect of concurrent feeding of Tween 80 on the carcinogenicity of orally administered 3-Mmthylcholanthrene. *J. Natl. Cancer Inst*, **22**: 363-399.
- Wongso, H., Iswahyudi, 2013. Induksi Kanker Pada Tikus Putih Sprague Dawley Sebagai Hewan Model Dalam Penelitian Radiofarmaka. Prosiding Seminar Nasional Sains dan Teknologi Nuklir.
- Wu, X., Chen, G., Lu, J., Zhu, W., Qiu, J., Chen, J., dkk., 2013. Label-Free Detection of Breast Masses Using Multiphoton Microscopy. *PLoS ONE*, **8**: 1-7.
- Wulandari, E., Alverina, A., Martien., R., 2016. SNEDDS (Self-Nanoemulsifying Drug Delivery System) Formulation Of β -Carotene In Olive Oil (*Olea europaea*). *International Journal of Advanced Research*, **4**: 1031–1043.
- Zeng, L., Xin, X., Zhang, Y., 2017. Development and characterization of promising Cremophor EL-stabilized o/w nanoemulsions containing short-chain alcohols as a cosurfactant. *RSC Adv*, **7**: 19815–19827.
- Zhang, Y., Yang, M., Portney, N.G., Cui, D., Budak, G., Ozbay, E., dkk., 2008. Zeta potential: a surface electrical characteristic to probe the interaction of nanoparticles with normal and cancer human breast epithelial cells. *Biomedical Microdevices*, **10**: 321–328.

- Zhao, T., 2015. 'Self-nanoemulsifying drug delivery systems (SNEDDS) for the oral delivery of lipophilic drugs', *Doctoral thesis*, . Universitas of Trento, Italy.
- Ziech, D., Franco, R., Pappa, A., Panayiotidis, M.I., 2011. Reactive Oxygen Species (ROS)—Induced genetic and epigenetic alterations in human carcinogenesis. *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis*, **711**: 167-173.
- Zingue, S., Njuh, A.N., Tueche, A.B., Tamsa, J., 2018. In Vitro Cytotoxicity and *In vivo* Antimammary Tumor Effects of the Hydroethanolic Extract of *Acacia seyal* (Mimosaceae) Stem Bark. *BioMed Research International*, **2018**: 1-13.