

DAFTAR PUSTAKA

- Aditama, P., Sugiarno, E., Indriastuti, M., dan Wahyuningtyas, E., (2020) Protesa obturator definitif resin akrilik pada pasien *systemic lupus erythematosus* (SLE) pasca maksilektomi. *J Kedokt Gigi Univ Padjadjaran*. 32(1): 64-71.
- Alqahtani, S., (2017) *In silico* ADME-Tox modeling: progress and prospects. *Expert Opin Drug Metab Toxicol*. 13(11): 1147-1158.
- Alzahrani, S., Morad, M., Bayazeed, A., Aljohani, M. M., Alkhatib, F., Shah, R., ... dan El-Metwaly, N. M., (2020) Ball milling approach to prepare new Cd (II) and Zn (II) complexes; characterization, crystal packing, cyclic voltammetry and MOE-docking agrees with biological assay. *J Mol Structure*. 1218: 128473.
- Antonelli, M., dan Kushner, I., (2017) It's time to redefine inflammation. *Faseb J*. 31: 1787-1791.
- Aslroosta, H., Morshedzadeh, G., Moslemi, N., Moayer, A., Rahimi, H., Fekrazad, R., (2021) Clinical Outcomes of Free Gingival Graft Following Recipient Bed Preparation with Er,Cr:YSGG Laser Versus Scalpel: A Split-Mouth Randomized Clinical Trial. *Photobiomodul Photomed Laser Surg*. 39(6): 425-433.
- Bagad, A. S., Joseph, J. A., Bhaskaran, N., dan Agarwal, A., (2013) Comparative evaluation of anti-inflammatory activity of curcuminoids, turmerones, and aqueous extract of *Curcuma longa*. *Adv Pharmacol Sci*. 1-7.
- Bajusz, D., Rácz, A. dan Héberger, K. (2015) Why is Tanimoto index an appropriate choice for fingerprint-based similarity calculations?. *J Cheminform*. 7(1): 1-13.
- Bakar, F. I. A., Bakar, M. F. A., Abdullah, N., Endrini, S., dan Rahmat, A. (2018) A Review of Malaysian Medicinal Plants with Potential Anti-Inflammatory Activity. *Adv in Pharm Sci*. 10: 1-13.
- Baran, P., Hansen, S., Waetzig, G. H., Akbarzadeh, M., Lamertz, L., Huber, H. J., Ahmadian, M. R., Moll, J. M., dan Scheller J., (2018) The balance of interleukin (IL)-6, IL-6-soluble IL-6 receptor (sIL-6R), and IL-6-sIL-6R-sgp130 complexes allows simultaneous classic and trans-signaling. *J Biol Chem*. 293(18): 6762-6775.
- Bernabé-Pineda, M., Ramirez-Silva, M. T., Romero-Romo, M., González-Vergara, E., dan Rojas-Hernández, A., (2004) Determination of acidity constants of curcumin in aqueous solution and apparent rate constant of its decomposition. *Spectrochim Acta A*. 60: 1091-1097.
- Bin, S., Xin, L., Lin, Z., Jinhua, Z., Rui, G., dan Xiang, Z., (2021) Targeting miR-10a-5p/IL-6R axis for reducing IL-6-induced cartilage cell ferroptosis. *Exp Mol Pathol*. 118: 104570.

- Borsari, M., Ferrari, E., Grandi, R., dan Saladini, M., (2002) Curcuminoids as potential new ironchelating agents: spectroscopic, polarographic and potentiometric study on their Fe(III) complexing ability. *Inorg Chim Acta*. 328: 61–68.
- Chauhan, P. S., Dash, D., Paul, B., dan Singh, R., (2016) Intranasal curcumin ameliorates airway inflammation and obstruction by regulating MAPKinase activation (p38, Erk and JNK) and prostaglandin D2 release in murine model of asthma. *Int Immunopharmacol*. 31:200–206.
- Choy, E., dan Rose-John, S., (2017) Interleukin-6 as a Multifunctional Regulator: Inflammation, Immune Response, and Fibrosis. *J Sclerod Relat Disord*. 2(2): 51-55.
- Choy, E. H., De Benedetti, F., Takeuchi, T., Hashizume, M., John, M. R., dan Kishimoto, T., (2020) Translating IL-6 biology into effective treatments. *Nat Rev Rheumatol*. 16(6): 335-345.
- Cuc, N. T. T., Dai, H. Q., Nhung, N. T. A., Hung, N. P., dan Trung, N. T., (2019) Roles of H₂O to hydrogen bonds, structure and strength of complexes of CH₃CHS and H₂O. *Vietnam J Chem*. 57(4): 425-432.
- Deo, S. D., Shetty S. K., Kulloli A., Chavan, R., Dholakia, P., Ligade, S., dan Dharmarajan, G., (2019) Efficacy of free gingival graft in the treatment of Miller Class I and Class II localized gingival recessions: A systematic review. *J Indian Soc Periodontol*. 23(2): 93-99.
- DrugBank, (2022) *Tocilizumab: Uses, Interactions, and Mechanism of Action*. Dilihat 9 Desember 2022 < <https://go.drugbank.com/drugs/DB06273>>
- Ehab, K., Abouldahab, O., Hassan, A., dan El-Sayed, K. M. F., (2020) Alvogyl and absorbable gelatin sponge as palatal wound dressings following epithelialized free gingival graft harvest: a randomized clinical trial. *Clin Oral Invest*. 24: 1517–1525.
- Fillbrunn, A., Dietz, C., Pfeuffer, J., Rahn, R., Landrum, G. A., dan Berthold, M. R., (2017) KNIME for reproducible cross-domain analysis of life science data. *J Biotechnol*. 261: 149-156.
- Garay, K. A., dan Castro-Rodríguez, Y., (2020) Adverse effects of free gingival graft. *J Oral Res*. 9(5): 354-356.
- Gebistorf, M., Mijuskovic, M., Pandis, N., Fudalej, P. S., dan Katsaros, C., (2018) Gingival recession in orthodontic patients 10 to 15 years posttreatment: A retrospective cohort study. *Am J Orthod Dentofac Orthop*. 153(5): 645-655.
- Ghandadi, M., dan Sahebkar, A., (2017) Curcumin: An effective inhibitor of interleukin-6. *Curr Pharm Des*. 23(6): 921-931.
- Hanif, A. U., Lukis, P. A., dan Fadlan, A. (2020) Pengaruh minimisasi energi MMFF94 dengan MarvinSketch dan open Babel PyRx pada penambatan molekular turunan oksindola tersubstitusi. *Alchemy*. 8(2): 33-40.

- Hupp, J. R., Ellis, E., dan Tucker, M. R., (2019) *Contemporary Oral and Maxillofacial Surgery*. 7th ed. Philadelphia: Elsevier. pp 45-46.
- Kocaadam, B. and Şanlıer, N., (2017) Curcumin, an active component of turmeric (Curcuma longa), and its effects on health. *Crit Rev Food Sci Nutr*. 57(13): 2889–2895.
- Kusbiantoro, D., dan Purwaningrum, Y., (2018) Pemanfaatan kandungan metabolit sekunder pada tanaman kunyit dalam mendukung peningkatan pendapatan masyarakat. *Kultiv*. 17(1): 544-549.
- Kusumaningtyas, E., dan Subekti, D. T., (2019) Analisis in silico aktivitas antimikroba peptida dari susu kuda sumbawa. *Proceeding Book: Pros Semin Nas Teknol Peternak Vet*. pp. 835-842.
- Jovanovic, S. V., Steenken, S., Boone, C. W., dan Simic, M. G., (1999) H-atom transfer is a preferred antioxidant mechanism of curcumin. *J Am Chem Soc*. 121: 9677–9681.
- Lenz, A., Franklin, G. A., dan Cheadle, W. G., (2007) Systemic inflammation after trauma. *Injury*. 38(12): 1336-1345.
- Lestari, M. L. A. D., Indrayanto, G., (2014) Chapter three: curcumin. Dalam: Brittain, H. G., *Profiles of Drug Substance Excipients, and Related Methodology*. 39th ed. San Diego: Elsevier. pp 113-204.
- Llopis-Lorente, J., Gomis-Tena, J., Cano, J., Romero L., Saiz, J., dan Trenor, B., (2020) *In silico* classifiers for the assessment of drug proarrhythmicity. *J Chem Inf Model*. 60: 5172-5187.
- Mahrosh, H. S., dan Mustafa, G., (2021), An in silico approach to target RNA-dependent RNA polymerase of COVID-19 with naturally occurring phytochemicals. *Environ Dev Sustain*. 23(11): 16674-16687.
- Makatita, F. A., Wardhani, R., dan Nuraini, (2020) Riset *in silico* dalam pengembangan sains di bidang pendidikan, studi kasus: analisis potensi cendana sebagai agen anti-aging. *J Abdi*. 2(1): 59-67.
- Manna, A., Laksitorini, M. D., Hudiyanti, D., dan Siahaan, P., (2017) Molecular Docking of interaction between e-cadherin protein and conformational structure of cyclic peptide ADTC3 (Ac-CADTPC-NH₂) simulated on 20 ns. *J Kim Sains dan Apl*. 20(1): 30-36.
- Mardianingrum, R., Bachtiar, K. R., Susanti, S., Nuraisah, A. N. A., dan Ruswanto, R., (2021) Studi In Silico Senyawa 1, 4-Naphthalenedione-2-Ethyl-3-Hydroxy sebagai Antiinflamasi dan Antikanker Payudara. *Alchemy J Penel Kim*. 17(1): 83-95.
- Masulili, S. L. C., Kemal, Y., dan Masulili, C., (2013) Preparasi periodontal pada pembuatan gigitiruan. *Dentofac*. 12(2): 129-134.
- Memarzia, A., Khazdair, M. R., Behrouz, S., Gholamnezhad, Z., Jafarnezhad, M., Saadat, S., dan Boskabady, M. H., (2021) Experimental and clinical reports

- on anti-inflammatory, antioxidant, and immunomodulatory effects of *Curcuma longa* and curcumin, an updated and comprehensive review. *Biofactor*. 47(3): 311-350.
- Meng, X.Y., Zhang, H.X., Mezei, M. dan Cui, M., (2011) Molecular docking: a powerful approach for structure-based drug discovery. *Curr Computer-aided Drug Des*. 7(2): 146-157.
- Murdaya, N., Al Shofwan, A. A., Azzahra, R. W., Utami, S. D., Ramadan, E., Suhandi, C., dan Muchtaridi, M., (2021) Molecular Docking Senyawa Ekstrak Etanol Daun Kenikir (*Cosmos caudatus*) Sebagai Inhibitor IL-6 dalam Respon Inflamasi. *J Farm Udayana*. 10(2): 138-143.
- Mutiah, R., (2015) Evidence based kurkumin dari tanaman kunyit (*Curcuma longa*) sebagai terapi kanker pada pengobatan modern. *J Islam Pharm*. 1(1): 28-41.
- Muttaqin, F. Z. (2019) Molecular docking and molecular dynamic studies of stilbene derivative compounds as sirtuin-3 (SIRT3) histone deacetylase inhibitor on melanoma skin cancer and their toxicities prediction. *J Pharmacopol*. 2(2):112-121.
- Narazaki, M., dan Kishimoto, T. (2018) The two-faced cytokine IL-6 in host defense and diseases. *Int J Mol Sci*. 19(11): 3528.
- National Center for Biotechnology Information, (2022) PubChem Compound Summary for CID 969516. *Curr*. Retrieved April 7, 2022 from <https://pubchem.ncbi.nlm.nih.gov/compound/Curcumin>.
- Nettem, S., Nettemu, S. K., Singh, V. P., dan Nayak, S. U., (2018) Free Gingival Graft: An Effective Technique to Create Healthy Keratinised Gingiva. *Indian J Mednod Allied Sci*, 6(1): 30-34.
- Ogata, H., Goto, S., Fujibuchi, W., dan Kanehisa, M., (1998) Computation with the KEGG pathway database. *Biosyst*. 47(1-2): 119-128.
- Panigrahy, D., Gilligan, M. M., Serhan, C. N., Kashfi, K., (2021) Resolution of inflammation: An organizing principle in biology and medicine. *Pharmacol Ther*. 227: 107879.
- Park, J., Ayyappan, V., Bae, E. K., Lee, C., Kim, B. S., Kim, B. K., ... dan Yoon, S. S. (2008) Curcumin in combination with bortezomib synergistically induced apoptosis in human multiple myeloma U266 cells. *Mol Oncol*. 2(4): 317-326.
- Prenissl, N., Lokau, J., Rose-John, S., Haybaeck, J., dan Garbers, C., (2019) Therapeutic blockade of the interleukin-6 receptor (IL-6R) allows sIL-6R generation by proteolytic cleavage. *Cytokine*. 114: 1-5.
- Primadina, N., Basori, A., dan Perdanakusuma, D. S., (2019) Proses Penyembuhan Luka Ditinjau dari Aspek Mekanisme Seluler dan Molekuler. *Qanun Med*. 3(1): 31-43.

- Putri, R. R., Hakim, R. F., dan Rezeki, S., (2017). Pengaruh Ekstrak Daun Tapak Dara (*Catharanthus Roseus*) Terhadap Jumlah Fibroblas Pada Proses Penyembuhan Luka Di Mukosa Oral. *J Caninus Dent.* 2(1): 20-30.
- Rachmania, R. A., Hariyanti, R. Z., dan Soultan, A. (2018). Studi In Silico Senyawa Alkaloid Herba Bakung Putih (*Crinum Asiaticum L.*) pada Penghambatan Enzim Siklooksigenase (COX) In Silico Study of Alkaloid Herba Bakung Putih (*Crinum Asiaticum L.*) on Inhibition of Cyclooxygenase Enzyme (COX). *J Kimia Val.* 4(2): 124-136.
- Rezavandi, K., (2016) Periodontal Factors. Dalam: *Essentials of Esthetic Dentistry, Smile Design Integrating Esthetics and Function.* New York: Elsevier. pp 126.
- Roy, U., dan Luck, L. A., (2007) Molecular modeling of estrogen receptor using molecular operating environment. *Biochem Mol Biol Educ.* 35(4): 238-243.
- Saha, A., Sharma, A. R., Bhattacharya, M., Sharma, G., Lee, S. S., dan Chakraborty, C., (2020) Tocilizumab: A Therapeutic Option for the Treatment of Cytokine Storm Syndrome in COVID-19. *Arch Med Res.* 51(6): 595-597.
- Setiani, L. A., Ardiansyah, D., Saepulrohman, A., Hakim, A. R., dan Cahyani, O., (2022) Analisis Graph Mining dalam Penentuan Senyawa Dan Tanaman Obat Indonesia Sebagai Antihipertensi. *Komputasi.* 19(1): 9-15.
- Shen, L., dan Ji, H. F., (2007) Theoretical study on physicochemical properties of curcumin. *Spectrochim Acta A.* 67: 619–623.
- Silipo, R., dan Winters, P., (2013) Big data, smart energy, and predictive analytics. *Time Series Prediction of Smart Energy Data.* 1: 37.
- Siviero, A., Gallo, E., Maggini, V., Gori, L., Mugelli, A., Firenzuoli, F. and Vannacci, A., (2015) Curcumin, a golden spice with a low bioavailability. *J Herb Med.* 5(2): 57-70.
- Sumarlin, L. O., Nurbayti, S., dan Fauziah, S., (2011) Penghambatan Enzim Pemecah Protein (Enzim Papain) oleh Ekstrak Rokok, Minuman Beralkohol dan Kopi secara In Vitro. *J Kim Val.* 2(3): 105986.
- Suzuki, M., Hashizume, M., Yoshida, H., dan Mihara, M., (2010) Anti-inflammatory mechanism of tocilizumab, a humanized anti-IL-6R antibody: effect on the expression of chemokine and adhesion molecule. *Rheumatol Int.* 30(3): 309-315.
- Tanaka, T., Narazaki, M., dan Kishimoto, T., (2018) Interleukin (IL-6) Immunotherapy. *Cold Spring Harb Perspect Biol.* 10(8): a028456.
- Tang, B., Ma, L., Wang, H. Y., dan Zhang, G. Y., (2002) Study on the supramolecular interaction of curcumin and β -cyclodextrin by spectrophotometry and its analytical application, *J Agric Food Chem.* 50: 1355–1361.

- Toma, A. I., Fuller, J. M., Willett, N. J., dan Goudy S. L., (2021) Oral wound healing models and emerging regenerative therapies. *Transl Res.* 236: 17-34.
- Tonnesen, H. H., dan Karlsen, J., (1985) Studies on curcumin and curcuminoids VI. Kinetics of curcumin degradation in aqueous solution. *Z Lebensm Unters Forsch.* 180: 402–404.
- Vilar, S., Cozza, G., dan Moro, S., (2008) Medicinal Chemistry and the Molecular Operating Environment (MOE): Application of QSAR and Molecular Docking to Drug Discovery. *Current Top Med Chem.* 8(18): 1555–1572.
- Yin, H-Y, Tao, P., Wei, J-R, Zhang, R., dan Ma, Y-H., (2016) Protective effects of curcumin on hepatocytes in cecal ligation and punctureinduced sepsis in rats. *Int J Clin Exp Med.* 9: 23072–23081.