

DAFTAR PUSTAKA

- Abdulla, A., Zhao, X & Yang, F. 2013, 'Natural Polyphenols Inhibit Lysine-Specific Demethylase-1 In Vitro', *Journal Biochem Pharmacol Res*, Vol. 1, No. 1, pp. 56-63.
- Ali, H.M., Muhyi, A & Riastiti, Y. 2021, 'Relationship of Age, Pretransfusion Hemoglobin Levels and Length of Sickness on Quality of Life in Children with Thalassemia in Samarinda', *Jurnal Sains Kesehatan*, Vol. 3, No. 4, pp. 441-447.
- Amendola, G. & Cosconati, S. 2021, 'PyRMD: A New Fully Automated AI-Powered Ligand-Based Virtual Screening Tool', *Journal of Chemical Information and Modeling*, Vol. 2021, No. 61, pp. 3835-3845.
- Arfi, A.S., Lestari, R.D. & Damayanti, D.S. 2020, 'Studi In Silico Senyawa Aktif Rimpang Kunyit (*Curcuma domestica*) Terhadap Penghambatan Acetylcholinesterase, Microtubulin (beta tubulin), dan Aktivasi Calcium Channel sebagai Terapi Antelmintik', *Jurnal Kedokteran Komunitas*, Vol.8, No.2, pp. 36-47.
- Ballante, F., Kooistra, A.J., Kampen, S., Graaf, C. & Carlsson, J. 2021, 'Structure Based Virtual Screening for Ligands of G Protein-Coupled Receptors: What Can Molecular Docking Do for You?', *Pharmacol Rev*, Vol. 73, pp. 1689-1736.
- Cava, C & Castiglioni, I. 2020, 'Integration of Molecular Docking and In Vitro Studies: A Powerful Approach for Drug Discovery in Breast Cancer', *Applied Sciences*, Vol. 10, no. 19, pp. 6981.
- Dermawan, D., Sumirtanuridin, R., & Dewantisari, D. 2019, 'Molecular Dynamics Simulation Estrogen Receptor Alpha Againsts Andrographolide as Anti Breast Cancer', *Indonesian Journal of Pharmaceutical Science and Technology*, Vol.6, No.2, pp. 65-76.
- Dwitiyanti, D., Rachmania, A., Efendi, K. & Atmojo, T.T. 2018, 'Potensi Biji

- Buah Nangka (*Artocarpus heterophyllus* L.) Dalam Menghambat Reseptor Alfa-Glukosidase Pada Tikus Diabetes Mellitus Gestasional yang Terinduksi Streptozotosin Secara In Vivo Dan In Silico', *Prosiding Seminar Nasional Berseri*, Vol.1, pp. 118-130.
- Du, X., Li, Y., Xia, Y.L., Ai, S.M., Liang, J., Sang, P., Ji, X.L. & Liu, S.Q. 2016, 'Insights Into Protein–Ligand Interactions: Mechanisms, Models, And Methods', *International journal of molecular sciences*, Vol.17, No.2, pp. 144.
- Ekawasti, F., Sa'diah, S., Cahyaningsih, U., Dharmayanti, N.L.P.I & Subekti, D.T. 2021, 'Molecular Docking Senyawa Jahe Merah dan Kunyit pada Dense Granules Protein-1 Toxoplasma gondii dengan Metode In Silico', *Jurnal Veteriner*, Vol. 22, No. 44, pp. 474-484.
- Ferreira, L.G., Dos Santos, R.N., Oliva, G. & Andricopulo, A.D. 2015, 'Molecular Docking and Structure-Based Drug Design Strategies', *Molecules*, Vol. 20, pp. 13384-13421.
- Forli, S., Huey, R., Pique, M.E., Sanner, M., Goodsell, D.S. & Olson, A.J. 2016, 'Computational Protein-Ligand Docking And Virtual Drug Screening With The Autodock Suite', *Nat Protocol*, Vol.11, No.5, pp. 905–919.
- Ginder G. D. 2015, 'Epigenetic Regulation of Fetal Globin Gene Expression in Adult Erythroid Cells', *Translational Research : The Journal Of Laboratory And Clinical Medicine*, vol. 165, no. 1, pp. 115–125.
- Głowacki, E.D., Irimia-Vladu, M., Bauer, S. & Sariciftci, N.S. 2013, 'Hydrogen-Bonds In Molecular Solids-From Biological Systems To Organic Electronics', *Journal of Materials Chemistry B*, Vol. 1, No. 31, pp. 3742–53.
- Gómez-Jeria, J-S., Robles-Navarro, A., Kpotin, G., Garrido-Sáez, N & Nelson, G-D. 2020, 'Some Remarks About The Relationships Between The Common Skeleton Concept Within The Klopman-Peradejordi-Gomez Qsar Method And The Weak Molecule-Site Interactions', *Chemistry Research Journal*, Vol. 5, No. 2, pp 32-52.

- Hanif, A.U., Lukis, P.A. & Fadlan, A., 2020, 'Pengaruh Minimisasi Energi MMFF94 dengan MarvinSketch dan Open Babel PyRx pada Penambatan Molekular Turunan Oksindola Tersubstitusi', *Alchemy*, Vol.8, No.2, pp.33-40.
- Hollingsworth, S.A. & Dror, R.O., 2019, 'Molecular Dynamics Simulation for All', *Elsevier Inc : Neuron*, Vol.2018, No.8, pp.1129-1143.
- Huang, C., Lu, H., Chen, Y., Chen, J., Chou, W & Huang, H. 2020, 'Curcumin, Demethoxycurcumin, and Bisdemethoxycurcumin Induced Caspase-Dependent and -Independent Apoptosis via Smad or Akt Signaling Pathways in HOS Cells', *BMC Complementary Medicine and Therapies*, Vol. 20, No. 68, pp. 1-11.
- Irwan, I., Hajrah, H. & Sastyarina, Y. 2021, 'Simulasi Docking Senyawa Naphthoquinones Umbi Bawang Tiwai (*Eleutherine americana* Merr.) terhadap Bakteri *Mycobacterium tuberculosis*', *Proceeding of Mulawarman Pharmaceuticals Conferences*, Vol.13, pp. 92-98.
- Kaewsakulthong, W., Pongpaksupasin, P., Nualkaew, T., Hongeng, S., Fucharon, S & Jearawiriyapaisarn, O. 2021, 'Lysine-Specific Histone Demethylase 1 Inhibition Enhances Robust Fetal Hemoglobin Induction in Human β^0 -thalassemia/Hemoglobin E Erythroid Cells', *Hematology Reports*, Vol. 13, No. 9215, pp. 1-5.
- Kemenkes. 2018, 'Keputusan Menteri Kesehatan RI Nomor Hk.01.07/MENKES/1/2018 Tentang Pedoman Nasional Pelayanan Kedokteran Tata Laksana *Thalasemia*', Tersedia di: https://yankes.kemkes.go.id/unduh/fileunduh/1610420447_150443.pdf (diakses 15 Februari 2023)
- Kumar, A & Bora, U. 2012. Molecular Docking Studies on Inhibition of Stat3 Dimerization by Curcumin Natural Derivatives and its Conjugates with Amino Acids. *Biomedical Informatics*, Vol. 8, No. 20, pp. 988-993.
- Lelita, R., Gunawan, R. & Astuti, W. 2017, 'Studi Docking Molekular Senyawa Kuersetin, Kalkon dan Turunannya sebagai Inhibitor Sel Kanker Payudara

- MCF- 7 (Michigan Cancer Foundation-7)', *Jurnal Atomik*, Vol.1, No.2, pp. 190–196.
- Li, B., Zhang, X. & Li, J. 2022. 'Carrier-Free Supramolecular Nanoassemblies of Pure LSD1 Inhibitor for Effective Anti-Tumor Therapy', *Front Chemistry*, Vol. 10. pp. 1-9.
- Nuamsee, K., Chuprajob, T., Pabuprapap, W., Jintaridh, P., Munkongdee, T., Phannasii, P., Vadolas, J., Chaichompoo, P., Suksamram, A & Svasti, S. 2021, 'Trienone Analogs of Curcuminoids Induce Fetal Hemoglobin Synthesis via Demethylation at γ - Globin Gene Promoter', *Scientific Reports*, Vol. 11, No. 8552, pp. 1-9.
- Prasetio, N.F., Kepel, B.J., Bodhi, W., Fatimawali, Manampiring, A., & Budiarmo, S. 2021, 'Molecular Docking terhadap Senyawa Isoeuletherin dan Isoeuletherol sebagai Penghambat Pertumbuhan SARS-CoV-2', *eBiomedik*, Vol. 9, No. 1, pp. 101-106.
- Rachmania, R.A. 2019, 'Validasi Protokol Skrining Virtual Dan Analisis Interaksi Inhibitor Antiproliferasi Sel Kanker Berbasis Bahan Alam Terhadap Reseptor Cyclindependent Kinase 4 (Cdk 4)', *Media Farmasi*, vol.16, no.1, pp. 21–40.
- Raghu, G., Karunanithi, A., Kannan, I., & Preetha, L. 2017, 'Molecular Docking Study on Curcumin and its Derivatives as Inhibitors of BACE1 in The Treatment of Alzheimer's Disease', *National Journal of Physiology, Pharmacy and Pharmacology*, Vol. 8, no. 2, pp. 244-250.
- Rafiq, S., Raza, M. H., Younas, M., Naeem, F., Adeeb, R., Iqbal, J., Anwar, P., Sajid, U. & Manzoor, H.M. 2018, 'Molecular Targets of Curcumin and Future Therapeutic Role in Leukemia', *Journal of Biosciences and Medicines*, Vol. 6, pp. 33-50.
- Riyadi, S.A., Abdullah, F.F., Fadhilah, F. & Assidiqah, N. 2021. 'Anticancer Activity of Curcuminoids Against B16-F10 Melanoma Cell Lines', *Jurnal Ilmiah Farmako Bahari*, Vol.13, No.2, pp. 152-163.

- Rujito, L. 2019, 'Talasemia: Genetik Dasar & Pengelolaan Terkini', *UNSOED Press*, Banyumas.
- Rujito, L & Sasongko, T.H. 2018, 'Genetic Background of β Thalassemia Modifier: Recent Update', *J.Biomed.Transl.Res*, Vol. 01, pp. 12-21.
- Sari, I.W. and Junaidin, D.P. 2020, 'Molecular Docking Study Flavonoid Compounds From Kumis Kucing (*Orthosiphon stamineus* B.) In A-Glukosidase Receptor As Antidiabetic Type 2', *Jurnal Farmagazine*, Vol.7, No.2, pp. 54-60.
- Sastry, G. M., Adzhigirey, M., Day, T., Annabhimoju, R. & Sherman, W. 2013, 'Protein and Ligand Preparation: Parameters, Protocols, and Influence on Virtual Screening Enrichments', *Aided Mol*, vol.27, no.3, pp. 221– 234.
- Sato, H., Chuang, V.T.G., Yamasaki, K., Yamaotsu, N., Watanabe, H., Nagumo, K., Anraku, M., Kadowaki, D., Ishima, Y., Hirono, S., Otagiri, M & Maruyama, T. 2014, 'Differential Effects of Methoxy Group on the Interaction of Curcuminoids with Two Major Ligand Binding Sites of Human Serum Albumin', *Plos One*, Vol. 9, No. 2, pp 1-12.
- Sawesi, S., Malkaram, S.A., Elmageed, Z.Y.A., & Fandy, T. E. 2022, 'Modulation of The Activity of Histone Lysine Methyltransferases and Demethylases by Curcumin Analog in Leukaemia Cells', *J Cell Mol Med*, Vol. 26, pp. 5624-5633.
- Setyono, J., Nurani, S.C., Fareza, M.S., Fadlan, A & Sarmoko. 2021. 'Molecular Docking Of 6-Shogaol and Curcumin on DNMT1 and LSD1 as Potential Agents for Thalassemia Treatment', *Jurnal Kimia dan Pendidikan Kimia*, Vol 6, No. 3, pp. 326-334.
- Shen, Z., Gu, Y., Jiang, R., Qian, H., Li, S., Xu, L., Gu, W & Zuo, Y. 'Antitumor Effect of Demethylzeylasteral (T-96) on Triple- Negative Breast Cancer via LSD1-Mediate Epigenetic Mechanisms. *Analitycal Cellular Pathology*. Vol. 2022, pp. 1-12.
- Suherlan, S., Rohayah & Fakhri, T.M. 2021, 'Uji Aktivitas Antikanker Payudara

- Senyawa Andrografolida Dari Tumbuhan Sambiloto (*Andrographis paniculata* (Burm F) Ness.) terhadap Human Epidermal Growth Factor Receptor 2 (HER-2) secara In Silico', *Jurnal Ilmiah Farmasi Fisika*, Vol. 4, No. 2, pp. 39-50.
- Sun, X., Ding, L & Liu, H. 2018, 'Probing The Binding Mode And Unbinding Mechanism Of Lsd1 Inhibitors By Combined Computational Methods', *Phys. Chem*, Vol. 20, pp. 1-14.
- Suryoadji, K.A & Alfian, I.M. 2021, 'Patofisiologi Gejala Penyakit Thalasemia Beta: A Narrative Review', *Jurnal Khazanah*, Vol. 13, No.2, pp. 56-60.
- Susanti, N.M.P., Laksmiani, N.P.L., Dewi, P.P.P. & Dewi, P.Y.C. 2019, 'Molecular Docking Terpinen-4-ol pada Protein IKK sebagai Antiinflamasi', *Journal Of Chemistry*, Vol.13, No.2, pp: 221-228.
- Ummah, K., Mahardika, R.G. & Mardiyah, A. 2020, 'Sintesis Senyawa Vanilil Metil Keton dan Uji Aktivitas Antiinflamasi terhadap Enzim COX-1 dan COX-2 melalui Analisis In Silico', *ALCHEMY*, Vol.8, No.2, pp.1-11.
- Vinsiah, R. and Fadhillah, F. 2018, 'Studi Ikatan Hidrogen Sistem Metanol-Metanol & Etanol-Etanol dengan Metode Molekular Dinamik', *Sainmatika: Jurnal Ilmiah Matematika dan Ilmu Pengetahuan Alam*, Vol.15, No.1, pp. 14-22.
- Xu, Y., He, Z., Yang, M., Gao, Y., Jin, L., Wang, M., Zheng, Y., Lu, X., Zhang, S., Wang, C., Zhao, Z., Zhao, J., Gao, Q., & Duan, Y. 2019, 'Investigating the Binding Mode of Reversible LSD1 Inhibitors Derived from Stilbene Derivatives by 3D-QSAR, Molecular Docking, and Molecular Dynamics Simulation', *Molecules (Basel, Switzerland)*, Vol. 24, No. 24, pp. 4479.
- Yousuf, Z., Iman, K., Iftikhar, N. & Mirza, M.U. 2017, 'Structure-Based Virtual Screening and Molecular Docking for The Identification of Potential Multi-Targeted Inhibitors Against Breast Cancer', *Breast Cancer - Targets and Therapy*, Vol. 9, pp. 447-459.
- Yu, L., Jearawiriyapaisarn, N., Lee, M.P., Hosoya, T., Wu, Q., Myers, G., Lim, K.,

Kurita, R., Nakamura, Y., Vojtek, A.B., Rual, J & Engel, J.D. 2018, 'BAP1 Regulation of The Key Adaptor Protein NCOR1 Is Critical for γ -Globin Gene Repression', *Genes & Development*, Vol. 32, pp.1537–1549.

Zakaria, N.A., Bahar, R., Abdullah, W, Z., Yusoff, A.A.M., Shamsuddin, S., Wahab, R.A & Johan, M.F. 2022, 'Genetic Manipulation Strategies for β -Thalassemia: A Review', *Frontiers in Pediatrics*, Vol. 10, pp. 1-14.

