

DAFTAR PUSTAKA

- Abotaleb, M., Samuel, S.M., Varghese, E., Varghese, S., Kubatka, P., Liskova, A. dan Büsselberg, D. (2019) Flavonoids in cancer and apoptosis. *Cancers*, 11(1), pp. 1-18.
- Abraham, M.J., Murtola, T., Schulz, R., Páll, S., Smith, J.C., Hess, B. dan Lindah, E. (2015) Gromacs: High performance molecular simulations through multi-level parallelism from laptops to supercomputers. *SoftwareX*, 1–2, pp. 19–25.
- Abubakar, A.R. dan Haque, M. (2020) Preparation of medicinal plants: Basic extraction and fractionation procedures for experimental purposes. *Journal of Pharmacy and Bioallied Sciences*, 12 (1), pp. 1–10.
- Adan, A., Alizada, G., Kiraz, Y., Baran, Y. dan Nalbant, A. (2017) Flow cytometry: basic principles and applications. *Critical Reviews in Biotechnology*, 37(2), pp. 163–176.
- Adcock, S.A. dan McCammon, J.A. (2006) Molecular dynamics: Survey of methods for simulating the activity of proteins. *Chemical Reviews*, 106(5), 1589–1615.
- Agamah, F.E., Mazandu, G.K., Hassan, R., Bope, C.D., Thomford, N.E., Ghansah, A. and Chimusa, E.R. (2020) Computational/in silico methods in drug target and lead prediction. *Briefings in Bioinformatics*, 21(5), pp. 1663–1675.
- Ahmad, S., Singh, S., Srivastava, M.R., Shukla, S., Rai, S. dan Shamsi, A.S. (2022) Molecular Docking Simplified: Literature Review. *Advances in Medical, Dental and Health Sciences*, 4(4), pp. 37–44.
- Aho, N., Buslaev, P., Jansen, A., Bauer, P., Groenhof, G. dan Hess, B. (2022) Scalable Constant pH Molecular Dynamics in GROMACS. *Journal of Chemical Theory and Computation*, 18(10), pp. 6148–6160.
- Akhmal Muslikh, F., Kurniawati, E., Ma, B., Zeptyan Zenmas, S., Salmasfattah, N., Akhwan Dhafin, A., Prasetyawan, F. dan Bhakti Wiyata, I. (2023) ADMET Prediction of the Dominant Compound from Mangosteen (*Garcinia mangostana* L.) using pkCSM: A Computational Approach. *International Journal of Contemporary Sciences (IJCS)*, 1(1), pp. 33–38.
- Akram, M., Iqbal, M., Daniyal, M. dan Khan, A.U. (2017) Awareness and current knowledge of breast cancer. *Biological Research*, 50(1), pp. 1–23.
- Allouche, A. (2012) Software News and Updates Gabedit — A Graphical User Interface for Computational Chemistry Softwares. *Journal of computational chemistry*, 32, pp.174–182.
- An, J., Lee, D.C.W., Law, A.H.Y., Yang, C.L.H., Poon, L.L.M., Lau, A.S.Y. dan Jones, S.J.M. (2009) A novel small-molecule inhibitor of the avian influenza H5N1 virus determined through computational screening against the neuraminidase. *Journal of Medicinal Chemistry*, 52(9), pp. 2667–2672.

- Anandam, R., Babu Ala, V., Krishna K, B.M., Kasturi, J.K., Trripuram, V.D., Thota, P., Uppuluri, A., Varala, R. dan Bollikolla, H.B. (2019) Molecular Docking studies on a series of C-dimethylated chalcones towards possible pharmacological agents. *Caribbean Journal of Science and Technology*, 07(01), pp. 38–49.
- Ashariati, A. (2006) Ekspresi HER-2/Neu dan MDR-1 Berkorelasi Dengan Gen Mdr-1 Pada Penderita Kanker Payudara Locally Advanced Pasca Pengobatan Antrasiklin. *Doktoral Disertasi*. Universitas Airlangga.
- Asma, S.T., Acaroz, U., Imre, K., Morar, A., Shah, S.R.A., Hussain, S.Z., Arslan-Acaroz, D., Demirbas, H., Hajrulai-Musliu, Z., Istanbulgil, F.R., Soleimanzadeh, A., Morozov, D., Zhu, K., Herman, V., Ayad, A., Athanassiou, C. dan Ince, S. (2022) Natural Products/Bioactive Compounds as a Source of Anticancer Drugs. *Cancers*, 14(24), pp. 2-19.
- Atmaca, H., Ilhan, S., Çamli Pulat, Ç., Dundar, B.A. dan Zora, M. (2024) Evaluation of Novel Spiro-pyrrolopyridazine Derivatives as Anticancer Compounds: In Vitro Selective Cytotoxicity, Induction of Apoptosis, EGFR Inhibitory Activity, and Molecular Docking Analysis. *ACS Omega*, 9(22), pp. 23713–23723.
- Ayyagari, V.N., Hsieh, T. han J., Diaz-Sylvester, P.L. dan Brard, L. (2017) Evaluation of the cytotoxicity of the Bithionol - cisplatin combination in a panel of human ovarian cancer cell lines. *BMC Cancer*, 17(1), pp. 1–15.
- Azmir, J., Zaidul, I.S.M., Rahman, M.M., Sharif, K.M., Mohamed, A., Sahena, F., Jahurul, M.H.A., Ghafoor, K., Norulaini, N.A.N. dan Omar, A.K.M. (2013) Techniques for extraction of bioactive compounds from plant materials: A review. *Journal of Food Engineering*, 117(4), pp. 426–436.
- Azzam, K. AL (2023) SwissADME and pkCSM Webservers Predictors: an integrated Online Platform for Accurate and Comprehensive Predictions for In Silico ADME/T Properties of Artemisinin and its Derivatives. *Kompleksnoe Ispol'zovanie Mineral'nogo syr'â/Complex Use of Mineral Resources/Mineraldik Shikisattardy Keshendi Paidalanu*, 325(2), pp. 14–21.
- Banerjee, V., Sharda, N., Huse, J., Singh, D., Sokolov, D., Czinn, S.J., Blanchard, T.G. dan Banerjee, A. (2021) Synergistic potential of dual andrographolide and melatonin targeting of metastatic colon cancer cells: Using the Chou-Talalay combination index method. *European Journal of Pharmacology*, 897(11), pp. 17-29.
- Banoon, S.R., Salih, T.S. dan Ghasemian, A. (2022) Genetic Mutations and Major Human Disorders: A Review. *Egyptian Journal of Chemistry*, 65(2), pp. 571–589.
- Baranova, A., Krasnoselskyi, M., Starikov, V., Kartashov, S., Zhulkevych, I., Vlasenko, V., Oleshko, K., Bilodid, O., Sadchikova, M. dan Vinnyk, Y. (2022) Triple-negative breast cancer: current treatment strategies and factors of negative prognosis. *Journal of Medicine and Life*, 2022(2), pp. 153–161.

- Barok, M., Joensuu, H. dan Isola, J. (2014) Trastuzumab emtansine: Mechanisms of action and drug resistance. *Breast Cancer Research*, 16(2), pp. 2-9.
- Baruah, S. dan Borthakur, S.K. (2012) Studies on morphology and ethnobotany of Six species of *Garcinia* L. (Clusiaceae) found in the Brahmaputra Valley, Assam, India. *J. Nat. Prod. Plant Resour*, 2(3), pp. 389-396.
- Basu, A.K. (2018) DNA damage, mutagenesis and cancer. *International Journal of Molecular Sciences*, 19(4), pp. 4-12.
- Bergers, G. dan Fendt, S.M. (2021) The metabolism of cancer cells during metastasis. *Nature Reviews Cancer*, 21(3), pp. 162–180.
- Bernard, R., Maputla, S.P., Zuma, P., Joubert, A., Castel, S., van der Merwe, M., Zangenberg, E. dan Wiesner, L. (2025) Development and validation of an LC-MS/MS method for quantifying total and unbound doravirine in human plasma. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, 1252, pp. 12-20.
- Bohlin, L. (1998) Natural Products Isolation. *Drug Discovery Today*, 3(12) 536–537.
- Boldon, L., Laliberte, F. dan Liu, L. (2015) Review of the fundamental theories behind small angle X-ray scattering, molecular dynamics simulations, and relevant integrated application. *Nano Reviews*, 6(1), pp. 25-36.
- Bonilla, D.L., Reinin, G. dan Chua, E. (2021) Full Spectrum Flow Cytometry as a Powerful Technology for Cancer Immunotherapy Research. *Frontiers in Molecular Biosciences*, 7(1), pp. 1–10.
- Briones, R., Blau, C., Kutzner, C., de Groot, B.L. dan Aponte-Santamaría, C. (2019) GROmaps: A GROMACS-Based Toolset to Analyze Density Maps Derived from Molecular Dynamics Simulations. *Biophysical Journal*, 116(1), pp. 4–11.
- Bui, T.Q., Bui, A.T., Nguyen, K.T., Nguyen, V.T., Trinh, B.T.D. dan Nguyen, L.H.D. (2016) A depsidone and six triterpenoids from the bark of *Garcinia celebica*. *Tetrahedron Letters*, 57(23), pp. 2524–2529.
- Burguin, A., Furrer, D., Ouellette, G., Jacob, S., Diorio, C. dan Durocher, F. (2020) Trastuzumab effects depend on HER2 phosphorylation in HER2-negative breast cancer cell lines. *PLoS ONE*, 15(6), pp. 1–17.
- Cadena-Herrera, D., Esparza-De Lara, J.E., Ramírez-Ibañez, N.D., López-Morales, C.A., Pérez, N.O., Flores-Ortiz, L.F. dan Medina-Rivero, E. (2015) Validation of three viable-cell counting methods: Manual, semi-automated, and automated. *Biotechnology Reports*, (7), pp. 9–16.
- Cai, Y., Luo, Q., Sun, M. dan Corke, H. (2004) Antioxidant activity and phenolic compounds of 112 traditional Chinese medicinal plants associated with anticancer. *Life Sciences*, 74(17), pp. 2157–2184.

- Calderón-Montaña, J.M., Martínez-Sánchez, S.M., Jiménez-González, V., Burgos-Morón, E., Guillén-Mancina, E., Jiménez-Alonso, J.J., Díaz-Ortega, P., García, F., Aparicio, A. dan López-Lázaro, M. (2021) Screening for selective anticancer activity of 65 extracts of plants collected in Western Andalusia, Spain. *Plants*, 10(10), pp. 2193-2199.
- Carpenter, R.L. dan Lo, H.W. (2014) STAT3 target genes relevant to human cancers. *Cancers*, 6(2), pp. 897–925.
- Chávez Thielemann, H., Cardellini, A., Fasano, M., Bergamasco, L., Alberghini, M., Ciorra, G., Chiavazzo, E. dan Asinari, P. (2019) From GROMACS to LAMMPS: GRO2LAM: A converter for molecular dynamics software. *Journal of Molecular Modeling*, 25(6), pp. 45-52.
- Chen, C., Wang, Y., Zhao, X., Qian, Y. dan Wang, Q. (2014) Combined toxicity of butachlor, atrazine and λ -cyhalothrin on the earthworm *Eisenia fetida* by combination index (CI)-isobologram method. *Chemosphere*, (112), pp. 393–401.
- Chen, Y., Kim, M.T., Zheng, L., Deperalta, G. dan Jacobson, F. (2016) Structural Characterization of Cross-Linked Species in Trastuzumab Emtansine (Kadcyla). *Bioconjugate Chemistry*, 27(9) 2037–2047.
- Ching, T., Himmelstein, D.S., Beaulieu-Jones, B.K., Kalinin, A.A., Do, B.T., Way, G.P., Ferrero, E., Agapow, P.M., Zietz, M., Hoffman, M.M. dan Xie, W., 2018. Opportunities and obstacles for deep learning in biology and medicine. *Journal of the royal society interface*, 15(141), pp. 20-27.
- Chou, T.C. (2010) Drug combination studies dan their synergy quantification using the chou-talalay method. *Cancer Research*, 70(2), pp. 440–446.
- Chou, T.C. (2018) The combination index ($CI < 1$) as the definition of synergism and of synergy claims. *Synergy*, (7), pp. 49–50.
- Chou, T.C., Shapiro, T.A., Fu, J., Chou, J.H. dan Ulrich-Merzenich, G.S. (2019) Computerized quantification of drugs synergism in animal studies or in clinical trials using only ten data points. *Synergy*, (9), pp. 10-20.
- Chudasama, V.L., Schaedeli Stark, F., Harrold, J.M., Tibbitts, J., Girish, S.R., Gupta, M., Frey, N. dan Mager, D.E. (2012) Semi-mechanistic population pharmacokinetic model of multivalent trastuzumab emtansine in patients with metastatic breast cancer. *Clinical Pharmacology and Therapeutics*, 92(4), pp. 520–527.
- Cieplak, P., Kollman, P.A., Wang, J., Cieplak, P. dan Kollman, P.A. (2000) How well does a restrained electrostatic potential (RESP) model perform in calculating conformational energies of organic and biological molecules. *Journal of Computational Chemistry*, 21(12), pp. 1049–1074.
- Comşa, Ş., Cîmpean, A.M. dan Raica, M. (2015) The story of MCF-7 breast cancer cell line: 40 Years of experience in research. *Anticancer Research*, 35(6), pp. 3147–3154.

- Cornwell, J.A., Crncec, A., Afifi, M.M., Tang, K., Amin, R. dan Cappell, S.D. (2023) Loss of CDK4/6 activity in S/G2 phase leads to cell cycle reversal. *Nature*, 619(7969), pp. 363–370.
- Coveney, P. V. dan Wan, S. (2016) On the calculation of equilibrium thermodynamic properties from molecular dynamics. *Physical Chemistry Chemical Physics*, 18(44), pp. 30236–30240.
- Crane, R. dan Baker, C.R. (1999) Breast cancer treatment. *Nurse Practitioner Forum: Current Topics and Communications*, 10(3), pp. 145–153.
- Cuello, M., Ettenberg, S.A., Clark, A.S., Keane, M.M., Posner, R.H., Nau, M.M., Dennis, P.A. dan Lipkowitz, S. (2001) Down-regulation of the erbB-2 receptor by trastuzumab (Herceptin) enhances tumor necrosis factor-related apoptosis-inducing ligand-mediated apoptosis in breast and ovarian cancer cell lines that overexpress erbB-2. *Cancer Research*, 61(12), pp. 4892–4900.
- Da'i, M., Meilinasary, K.A., Suhendi, A. dan Haryanti, S. (2019) Selectivity Index of *Alpinia galanga* Extract and 1'-Acetoxychavicol Acetate on Cancer Cell Lines. *Indonesian Journal of Cancer Chemoprevention*, 10(2), pp. 95-100.
- Darwati, A.A. dan Adisumiwi, S. (2016) Santon dari kulit batang tumbuhan asam kandis (*Garcinia cowa*). *Chempublish Journal*, 1(1), pp. 25-31.
- Darwati, D., Safitri, A.N., Ambardhani, N., Mayanti, T., Nurlelasari, N. dan Kurnia, D. (2021) Effectiveness and Anticancer Activity of a Novel Phenolic Compound from *Garcinia porrecta* Against the MCF-7 Breast Cancer Cell Line in vitro and in silico. *Drug Design, Development and Therapy*, pp.3523-3533.
- Darwati, Nurlelasari, Mayanti, T., Ambardhani, N., & Kurnia, D. (2022) Morelloflavone as Potential Anticancer Agent Against MCF-7 Breast Cancer Cell Lines: In vitro and In silico Studies. *Letters in Drug Design & Discovery*, 19(4), pp.293–303.
- Darzynkiewicz, Z., Bedner, E. dan Smolewski, P. (2001) Flow cytometry in analysis of cell cycle and apoptosis. *Seminars in Hematology*, 38(2), pp. 179–193.
- Darzynkiewicz, Z., Zhao, H., Zhang, S., Lee, M.Y.W.T., Lee, E.Y.C. dan Zhang, Z. (2015) Initiation and termination of DNA replication during S phase in relation to cyclins D1, E and A, p21WAF1, Cdt1 and the p12 subunit of DNA polymerase δ revealed in individual cells by cytometry. *Oncotarget*, 6(14), pp. 11735–11750.
- Depkes RI (2014) *Farmakope Indonesia Edisi V*. V. Jakarta: Kementerian Kesehatann RI.
- Dewi, I.P., Dachriyanus, Aldi, Y., Ismail, N.H., Osman, C.P., Putra, P.P. dan Wahyuni, F.S. (2025) A new xanthone from *Garcinia cowa* Roxb. and its anti-inflammatory activity. *Journal of Ethnopharmacology*, 343(2), pp. 119-129.

- Dewi, I.P., Wahyuni, F., Aldi, Y. dan Dachriyanus (2023) *Garcinia Cowa* Roxb. Ethanol Extract Inhibits Inflammation in Lps-Induced Raw 264.7 Macrophages. *International Journal of Applied Pharmaceutics*, 15(Special Issue 1), pp. 1–7.
- Ding, L., Cao, J., Lin, W., Chen, H., Xiong, X., Ao, H., Yu, M., Lin, J. dan Cui, Q. (2020) The roles of cyclin-dependent kinases in cell-cycle progression and therapeutic strategies in human breast cancer. *International Journal of Molecular Sciences*, 21(6), pp. 1–28.
- Ding, Xu, D.Q., Lao, Y.Z. dan Xu, H.X. (2017) Interactions between traditional chinese medicine and anticancer drugs in chemotherapy. *World Journal of Traditional Chinese Medicine*, 3(3), pp. 38-45.
- Do, P.C., Lee, E.H. dan Le, L. (2018) Steered Molecular Dynamics Simulation in Rational Drug Design. *Journal of Chemical Information and Modeling*, 58(8), pp. 1473–1482.
- Dubale, S., Kebebe, D., Zeynudin, A., Abdissa, N. dan Suleman, S. (2023) Phytochemical Screening and Antimicrobial Activity Evaluation of Selected Medicinal Plants in Ethiopia. *Journal of Experimental Pharmacology*, 15(2), pp. 51–62.
- Dunn, I., Pirhadi, S., Wang, Y., Ravindran, S., Concepcion, C. dan Koes, D.R. (2024) CACHE Challenge #1: Docking with GNINA Is All You Need. *Journal of Chemical Information and Modeling*, 64(24), pp. 9388-9396.
- Dutta, M., Gogoi, N., Neog, B., Lekharu, K., Sonowal, S. dan Phukon, H. (2023) Morphology and Genetic Diversity of *Garcinia cowa* (Roxb.) in Upper Brahmaputra Valley of Assam. *Asian Journal of Biological and Life Sciences*, 12(1), pp.81-87.
- Ekins, S., Mestres, J. dan Testa, B. (2007) In silico pharmacology for drug discovery: Methods for virtual ligand screening and profiling. *British Journal of Pharmacology*, 152(1), pp. 9–20.
- Elekofehinti, O.O., Iwaloye, O., Olawale, F. dan Ariyo, E.O. (2021) Saponins in cancer treatment: Current progress and future prospects. *Pathophysiology*, 28(2), pp. 250–272.
- Elmore, S. (2007) Apoptosis: A Review of Programmed Cell Death. *Toxicologic Pathology*, 35(4), pp. 495–516.
- Elwakeel, A., Soudan, H., Eldoksh, A., Shalaby, M., Eldemellawy, M., Ghareeb, D., Abouseif, M., Fayad, A., Hassan, M. dan Saeed, H. (2019) Implementation of the Chou-Talalay method for studying the in vitro pharmacodynamic interactions of binary and ternary drug combinations on MDA-MB-231 triple negative breast cancer cells. *Synergy*, (8), pp. 100-120.

- Engel, N., Oppermann, C., Falodun, A. dan Kragl, U. (2011) Proliferative effects of five traditional Nigerian medicinal plant extracts on human breast and bone cancer cell lines. *Journal of Ethnopharmacology*, 137(2), pp. 1003–1010.
- Fantini, M., Benvenuto, M., Masuelli, L., Frajese, G.V., Tresoldi, I., Modesti, A. dan Bei, R. (2015) In vitro and in vivo antitumoral effects of combinations of polyphenols, or polyphenols and anticancer drugs: Perspectives on cancer treatment. *International Journal of Molecular Sciences*, 16(5), pp. 9236–9282.
- Farooq, U., Bukhari, S.M., Khan, S., Xu, X.L., Xu, H.G. dan Zheng, W.J. (2024) Microsolvation of salts in water: A comprehensive overview of the experimental and computational approaches. *Coordination Chemistry Reviews*, 517(6), pp. 21–31.
- Febriansah, R., Putri, D.D.P., Sarmoko, Nurulita, N.A., Meiyanto, E. dan Nugroho, A.E. (2014) Hesperidin as a preventive resistance agent in MCF-7 breast cancer cells line resistance to doxorubicin. *Asian Pacific Journal of Tropical Biomedicine*, 4(3), pp. 228–233.
- Félix, F. dan Barros, T. (2013) *Biological characterisation of HER2 amplified breast cancer* (Doctoral dissertation, University of Nottingham).
- Fischer, M., Schade, A.E., Branigan, T.B., Müller, G.A. dan DeCaprio, J.A. (2022) Coordinating gene expression during the cell cycle. *Trends in Biochemical Sciences*, 47(12), pp. 1009–1022.
- Fizman, G.L. dan Jasnis, M.A. (2011) Molecular Mechanisms of Trastuzumab Resistance in HER2 Overexpressing Breast Cancer. *International Journal of Breast Cancer*, (2011), pp. 1–11.
- Foo, J.B., Ng, L.S., Lim, J.H., Tan, P.X., Lor, Y.Z., Loo, J.S.E., Low, M.L., Chan, L.C., Beh, C.Y., Leong, S.W., Saiful Yazan, L., Tor, Y.S. dan How, C.W. (2019) Induction of cell cycle arrest and apoptosis by copper complex Cu(SBCM)₂ towards oestrogen-receptor positive MCF-7 breast cancer cells. *RSC Advances*, 9(32), pp. 18359–18370.
- Freudenberg, J.A., Wang, Q., Katsumata, M., Drebin, J., Nagatomo, I. dan Greene, M.I. (2009) The role of HER2 in early breast cancer metastasis and the origins of resistance to HER2-targeted therapies. *Experimental and Molecular Pathology*, 87(1), pp. 1–11.
- Furqan, M., Dachriyanus, Susanti, M., Putra, P.P. dan Wahyuni, F.S. (2024) Unravelling The Interaction Between Garcinisidone-A and Her2 Protein In Breast Cancer: A Computational Study. *International Journal of Applied Pharmaceutics*, 16(Special Issue 1), pp. 99–104.
- Furqan, M., Wahyuni, F.S., Susanti, M. dan Hamidi, D. (2025a) Evaluation of *Garcinia cowa* Leaf Extract as A Potential Anticancer Agent: Cytotoxicity, Selectivity, and

Apoptotic Effects on MCF-7/HER-2 Cells. *Tropical Journal of Natural Product Research*, 9(2), pp. 846–852.

Furqan, M., Wahyuni, F.S., Susanti, M. dan Hamidi, D. (2025b) Synergistic Cytotoxic and Cell Cycle-Regulating Effects of *Garcinia cowa* Leaf Extract and Trastuzumab in HER2-Positive Breast Cancer Cells. *Tropical Journal of Natural Product Research*, 9(3), pp. 992–1000.

Gao, W., Chen, F., Wang, X. dan Meng, Q. (2020) Recent advances in processing food powders by using superfine grinding techniques: A review. *Comprehensive Reviews in Food Science and Food Safety*, 19(4), pp. 2222–2255.

Gasteiger, J. (2020) Chemistry in Times of Artificial Intelligence. *ChemPhysChem*, 21(20), pp. 2233–2242.

Ghafari, N. dan Sleno, L. (2024) Challenges and recent advances in quantitative mass spectrometry-based metabolomics. *Analytical Science Advances*, 5(5–6) pp. 1–16.

Ghorbanzadeh, O., Blaschke, T., Gholamnia, K., Meena, S.R., Tiede, D. dan Aryal, J. (2019) Evaluation of different machine learning methods and deep-learning convolutional neural networks for landslide detection. *Remote Sensing*, 11(2), pp. 45-51.

Giordano, D., Facchiano, A., Moccia, S., Meola, A.M.I., Russo, G.L. dan Spagnuolo, C. (2023) Molecular Docking of Natural Compounds for Potential Inhibition of AhR. *Foods*, 12(10), pp. 43-48.

Gohain, S.B. dan Thakur, A.J. (2021) Au Nanostructures with Controlled Morphology, Biosynthesized from *Garcinia cowa* Fruit Extract, and Their Use in Microwave-Mediated Bisindole Synthesis. *ChemistrySelect*, 6(26), pp.6773-6780.

Goodswen, S.J., Kennedy, P.J. dan Ellis, J.T. (2013) A novel strategy for classifying the output from an in silico vaccine discovery pipeline for eukaryotic pathogens using machine learning algorithms. *BMC bioinformatics*, 14, pp.1-13.

Gori, A., Boucherle, B., Rey, A., Rome, M., Fuzzati, N. dan Peuchmaur, M. (2021) Development of an innovative maceration technique to optimize extraction and phase partition of natural products. *Fitoterapia*, 148(11), pp. 131-143.

Govorkova, E.A., Murti, G., Meignier, B., de Taisne, C. dan Webster, R.G. (1996) African green monkey kidney (Vero) cells provide an alternative host cell system for influenza A and B viruses. *Journal of Virology*, 70(8), pp. 5519–5524.

Hahnvajjanawong, C., Ketnimit, S., Pattanapanyasat, K., Anantachoke, N., Sripan, B., Pinmai, K., Seubwai, W. dan Reutrakul, V. (2012) Involvement of p53 and nuclear factor-kappaB signaling pathway for the induction of G1-phase cell cycle arrest of cholangiocarcinoma cell lines by isomorellin. *Biological and Pharmaceutical Bulletin*, 35(11) pp.1914-1925.

- Halimi, M. dan Bararpour, P. (2022) Natural inhibitors of SARS-CoV-2 main protease: structure based pharmacophore modeling, molecular docking and molecular dynamic simulation studies. *Journal of Molecular Modeling*, 28(9), pp. 56-60.
- Hanahan, D. dan Weinberg, R.A. (2022) Biological Hallmarks of Cancer. *Holland-Frei Cancer Medicine*, pp. 1–10.
- Harborne, J.B. (2006) *Metode fitokimia: penuntun cara modern menganalisis tumbuhan*. Bandung: ITB Press.
- Hassan, A., Akmal, Z., Khan, N. dan Alparslan, Y. (2020) The Phytochemical Screening and Antioxidants Potential of *Schoenoplectus triqueter* L. Palla. *Journal of Chemistry*, (20), pp. 35-43.
- Hefni, D., Dachriyanus, Nahda, A.M. dan Wahyuni, F.S. (2024) Effect Of Cowanin On Cyclin D1 Expression In MCF-7/Her2 Breast Cancer Cells. *International Journal of Applied Pharmaceutics*, 16(Special Issue 1), pp. 149–151.
- Hefni, D., Dachriyanus, W.F., Yerizel, E., Arisanty, D. dan Yusra, L.N. (2020) Cowanin, a cytotoxic xanthone from asam kandis (*Garcinia cowa* roxb.) reduced cell migration and induced cell cycle arrest on T47D human cancer cell. *Int. J. Adv. Sci*, 10, pp. 2164-2169.
- Hefni, D., Susanti, M., Sri Wahyuni, F. dan Arya Pratama, F. (2022) *Tetraprenyltoluquinone Inhibits the Tumor Marker Aldo-Keto Reductase: An in Silico Study*. 12(6) pp.34-37.
- Hefni, D. dan Wahyuni, F.S. (2021) The Cytotoxicity Study of *Lantana camara* Linn Essential Oil on HeLa Cancer Cells Line. *Pharmacognosy Journal*, 13(6), pp. 23-29.
- Herbst, R.S., Bajorin, D.F., Bleiberg, H., Blum, D., Hao, D., Johnson, B.E., Ozols, R.F., Demetri, G.D., Ganz, P.A., Kris, M.G., Levin, B., Markman, M., Raghavan, D., Reaman, G.H., Sawaya, R., Schuchter, L.M., Sweetenham, J.W., Vahdat, L.T., Vokes, E.E., Winn, R.J., Mayer, R.J. dan Bentsen, T. (2006) Clinical Cancer Advances 2005: Major research advances in cancer treatment, prevention, and screening - A report from the American Society of Clinical Oncology. *Journal of Clinical Oncology*, 24(1), pp.190–205.
- Ho-Lun, W., Bendayan, R., Rauth, A.M., Hui, Y.X., Babakhanian, K. dan Xiao, Y.W. (2006) A mechanistic study of enhanced doxorubicin uptake and retention in multidrug resistant breast cancer cells using a polymer-lipid hybrid nanoparticle system. *Journal of Pharmacology and Experimental Therapeutics*, 317(3) 1372–1381.
- Hospital, A., Goñi, J.R., Orozco, M. dan Gelpí, J.L. (2015) Molecular dynamics simulations: Advances and applications. *Advances and Applications in Bioinformatics and Chemistry*, 8(1) 37–47.

- Hou, J., Karin, M. dan Sun, B. (2021) Targeting cancer-promoting inflammation — have anti-inflammatory therapies come of age? *Nature Reviews Clinical Oncology*, 18(5) 261–279.
- Housman, G., Byler, S., Heerboth, S., Lapinska, K., Longacre, M., Snyder, N. dan Sarkar, S. (2014) Drug resistance in cancer: An overview. *Cancers*, 6(3) 1769–1792.
- Hume, S., Dianov, G.L. dan Ramadan, K. (2020) A unified model for the G1/S cell cycle transition. *Nucleic Acids Research*, 48(22) 12483–12501.
- Hüsemann, Y., Geigl, J.B., Schubert, F., Musiani, P., Meyer, M., Burghart, E., Forni, G., Eils, R., Fehm, T., Riethmüller, G. dan Klein, C.A. (2008) Systemic Spread Is an Early Step in Breast Cancer. *Cancer Cell*, 13(1) 58–68.
- Husni, E., Nahari, F., Wirasti, Y., Wahyuni, F.S. dan Dachriyanus, H. (2015) Cytotoxicity study of ethanol extract of the stem bark of asam kandis (*Garcinia cowa* Roxb.) on T47D breast cancer cell line. *Asian Pacific Journal of Tropical Biomedicine*, 5(3) 249–252.
- Ifora, I., Hamidi, D., Susanti, M., Hefni, D. dan Wahyuni, F.S. (2025) Enhancing Chemotherapeutic Efficacy : Synergistic Cytotoxic Effect of *Garcinia cowa* Bark Extract and Doxorubicin in T47D Breast Cancer Cells. *Trop J Nat Prod Res*, 9(January) 67–72.
- Ifora, I. dan Rahmaddian, T. (2022) Antioxidant Potential of *Garcinia cowa* Roxb.: A Review. *International Journal of Pharmaceutical Sciences & Medicine*, 7(9) 20–26.
- Ingle, K.P., Deshmukh, A.G., Padole, D.A., Dudhare, M.S., Moharil, M.P. dan Khelurkar, V.C. (2017) Phytochemicals: Extraction methods, identification and detection of bioactive compounds from plant extracts. *Journal of Pharmacognosy and Phytochemistry*, 6(1) 32–36.
- Ionescu, C.A., Aschie, M., Matei, E., Cozaru, G.C., Deacu, M., Mitroi, A.F., Baltatescu, G.I., Nicolau, A.A., Mazilu, L., Tuta, L.A., Iorga, I.C., Stanigut, A. dan Enciu, M. (2022) Characterization of the Tumor Microenvironment and the Biological Processes with a Role in Prostatic Tumorigenesis. *Biomedicines*, 10(7) pp. 23-30.
- Ismail, S.Y., Uzairu, A., Sagagi, B. dan Suleiman, M.S. (2018) In silico molecular docking and pharmacokinetic study of selected phytochemicals with estrogen and progesterone receptors as anticancer agent for breast cancer. *Journal of the Turkish Chemical Society, Section A: Chemistry*, 5(3) 1337–1350.
- Jabit, M.L., Wahyuni, F.S., Khalid, R., Israf, D.A., Shaari, K., Lajis, N.H. dan Stanslas, J. (2009) Cytotoxic and nitric oxide inhibitory activities of methanol extracts of garcinia species. *Pharmaceutical Biology*, 47(11) 1019–1026.
- Jain, P., Giustolisi, G.M., Atkinson, S., Elnenaei, M.O., Morilla, R., Owusu-Ankomah, K., Rafiq-Mohammed, F., Matutes, E., Wotherspoon, A. dan Catovsky, D. (2002)

Detection of cyclin D1 in B cell lymphoproliferative disorders by flow cytometry. *Journal of Clinical Pathology*, 55(12) 940–945.

Jantan, I., Jumuddin, F.A., Saputri, F. dan Rahman, K. (2011) Inhibitory effects of the extracts of *Garcinia* species on human low-density lipoprotein peroxidation and platelet aggregation in relation to their total phenolic contents. *Journal of Medicinal Plants Research*, 5(13) 2699–2709.

Jena, B.S., Jayaprakasha, G.K. dan Sakariah, K.K. (2002) Organic acids from leaves, fruits, and rinds of *Garcinia cowa*. *Journal of Agricultural and Food Chemistry*, 50(12) 3431–3434.

Jenie, R.I., Handayani, S., Susidarti, R.A., Udin, L.Z. dan Meiyanto, E. (2018) The cytotoxic and antimigratory activity of Brazilin-doxorubicin on MCF-7/HER2 cells. *Advanced Pharmaceutical Bulletin*, 8(3) 507–516.

Joseph, G.S., Jayaprakasha, G.K., Selvi, A.T., Jena, B.S. dan Sakariah, K.K. (2005) Antiaflatoxic and antioxidant activities of *Garcinia* extracts. *International Journal of Food Microbiology*, 101(2) 153–160.

Ju, J.H., Jeon, M.J., Yang, W., Lee, K.M., Seo, H.S. dan Shin, I. (2011) Induction of apoptotic cell death by *Pharbitis nil* extract in HER2-overexpressing MCF-7 cells. *Journal of Ethnopharmacology*, 133(1) 126–131.

Kalita, A., Das, M., Das, B., & Baro, M.R. (2022) Molecular docking prediction and in vitro studies elucidate anti-inflammatory effect of *Garcinia* extract against inducible nitric oxide synthase and cyclooxygenase-2 targets. *Beni-Suef University Journal of Basic and Applied Sciences*, 11(1) 32–40.

Kamiloglu, S., Sari, G., Ozdal, T. dan Capanoglu, E. (2020) Guidelines for cell viability assays. *Food Frontiers*, 1(3) 332–349.

Kamińska, M., Ciszewski, T., Łopacka-Szatan, K., Miotła, P. dan Starosławska, E. (2015) Breast cancer risk factors. *Przegląd Menopauzalny*, 14(3) 196–202.

Karagiannis, P., Singer, J., Hunt, J., Gan, S.K.E., Rudman, S.M., Mechtcheriakova, D., Knittelfelder, R., Daniels, T.R., Hobson, P.S., Beavil, A.J., Spicer, J., Nestle, F.O., Penichet, M.L., Gould, H.J., Jensen-Jarolim, E. and Karagiannis, S.N. (2009) Characterisation of an engineered trastuzumab IgE antibody and effector cell mechanisms targeting HER2/neu-positive tumour cells. *Cancer Immunology, Immunotherapy*, 58(6) 915–930.

Kaufmann, M. (2019) Prognostic and predictive factors in breast cancer. *Consensus Development in Cancer Therapy 1: Therapeutic Management of Metastatic Breast Cancer*, (June 2008) 67–70.

Kemenkes RI (2017) *Farmakope Herbal Indonesia Edisi II*. II. Jakarta: Kementerian Kesehatan RI.

- Koay, D.C., Zerillo, C., Narayan, M., Harris, L.N. dan DiGiovanna, M.P. (2010) Anti-tumor effects of retinoids combined with trastuzumab or tamoxifen in breast cancer cells: Induction of apoptosis by retinoid/trastuzumab combinations. *Breast Cancer Research*, 12(4) pp. 89-95.
- Kohlhoff, K.J., Robustelli, P., Cavalli, A., Salvatella, X. dan Vendruscolo, M. (2009) Fast and accurate predictions of protein NMR chemical shifts from interatomic distances. *Journal of the American Chemical Society*, 131(39) 13894–13895.
- Kolb, P., Ferreira, R.S., Irwin, J.J. dan Shoichet, B.K. (2009) Docking and chemoinformatic screens for new ligands and targets. *Current Opinion in Biotechnology*, 20(4) 429–436.
- Kondori, J., Zendejboudi, S. dan James, L. (2019) Molecular dynamic simulations to evaluate dissociation of hydrate structure II in the presence of inhibitors: A mechanistic study. *Chemical Engineering Research and Design*, (149) pp. 81–94.
- Kong, X., Zhang, K., Wang, X., Yang, X., Li, Y., Zhai, J., Xing, Z., Qi, Y., Gao, R., Feng, X., Wang, J. dan Fang, Y. (2019) Mechanism of trastuzumab resistance caused by HER-2 mutation in breast carcinomas. *Cancer Management and Research*, (11), pp. 5971–5982.
- Kothari, V., Gupta, A. dan Naraniwal, M. (2012) Extraction methods for preparation of bioactive plant extracts: A comparative study. *international Journal of Applied and Natural Sciences*, 1(1), pp. 8–26.
- Kreis, N.-N., Louwen, F. dan Yuan, J. (2019) *Differentiation, Migration and Cancer Therapy*. (21), pp. 14–16.
- Kress, G.T., Chan, F., Garcia, C.A. dan Merrifield, W.S. (2022) Utilizing machine learning algorithms to predict subject genetic mutation class from in silico models of neuronal networks. *BMC Medical Informatics and Decision Making*, 22(1) 1–16.
- Kumar, A., Nirmal, P., Kumar, M., Jose, A., Tomer, V., Oz, E., Proestos, C., Zeng, M., Elobeid, T., Sneha, V. dan Oz, F. (2023) Major Phytochemicals: Recent Advances in Health Benefits and Extraction Method. *Molecules*, 28(2) 1–41.
- Kusumastuti, R., Utomo, R.Y., Khumaira, A., Putri, H., Jenie, R.I. dan Meiyanto, E. (2019) Pentagamaboronon-0 increased cytotoxicity of and inhibited metastasis induction by doxorubicin in breast cancer cells. *Journal of Applied Pharmaceutical Science*, 9(6) 43–51.
- Le, C. (2014) Experiment designs for the assessment of drug combination synergism. *Austin Biometrics and Biostatistics*, 1(2) 1–6.
- Lee, J., Cheng, X., Jo, S., MacKerell, A.D., Klauda, J.B. dan Im, W. (2016) CHARMM-GUI Input Generator for NAMD, Gromacs, Amber, Openmm, and CHARMM/OpenMM Simulations using the CHARMM36 Additive Force Field. *Biophysical Journal*, 110(3) 641a.

- Lee, J., Hitzengerger, M., Rieger, M., Kern, N.R., Zacharias, M. dan Im, W. (2020) CHARMM-GUI supports the Amber force fields. *Journal of Chemical Physics*, 153(3) pp. 89-94.
- Lesniak, D., Xu, Y., Deschenes, J., Lai, R., Thoms, J., Murray, D., Gosh, S., Mackey, J.R., Sabri, S. dan Abdulkarim, B. (2009) B1-Integrin Circumvents the Antiproliferative Effects of Trastuzumab in Human Epidermal Growth Factor Receptor-2-Positive Breast Cancer. *Cancer Research*, 69(22) 8620–8628.
- Lestari, B., Novitasari, D., Putri, H., Haryanti, S., Sasmito, E. dan Meiyanto, E. (2017) Evaluation of The Genotoxicity of Three Food Additives using CHO-K1 Cells under in vitro Micronucleus Flow Cytometry Assay. *Indonesian Journal of Cancer Chemoprevention*, 8(2) pp. 74-79.
- Li, N., Zhang, H., Bai, H. dan Lu, K. (2024) Development and validation of an LC-MS/MS method for ruxolitinib quantification: advancing personalized therapy in hematologic malignancies. *Journal of Pharmacy and Pharmaceutical Sciences*, 27(6), pp. 1–10.
- Li, X.R., Liu, M., Zhang, Y.J., Wang, J.D., Zheng, Y.Q., Li, J., Ma, B. dan Song, X. (2011) ER, PgR, HER-2, Ki-67, topoisomerase II α , and nm23-H1 proteins expression as predictors of pathological complete response to neoadjuvant chemotherapy for locally advanced breast cancer. *Medical Oncology*, 28(SUPPL. 1) 48–54.
- Ligasová, A., Frydrych, I. dan Koberna, K. (2023) Basic Methods of Cell Cycle Analysis. *International Journal of Molecular Sciences*, 24(4), pp. 89-96.
- Lim, T.K. (2012) *Edible Medicinal and Non-Medicinal Plants*. Dordrecht, The Netherlands: Springer. Vol. 1, pp. 285-292
- Lipinski, C.A. (2004) Lead- dan drug-like compounds: The rule-of-five revolution. *Drug Discovery Today: Technologies*, 1(4) 337–341.
- Lipinski, C.A., Lombardo, F., Dominy, B.W. dan Feeney, P.J. (2012) Experimental and computational approaches to estimate solubility and permeability in drug discovery and development settings. *Advanced Drug Delivery Reviews*, 64(SUPPL.), pp. 4–17.
- Liu, K., Watanabe, E. dan Kokubo, H. (2017) Exploring the stability of ligand binding modes to proteins by molecular dynamics simulations. *Journal of Computer-Aided Molecular Design*, 31(2) 201–211.
- Liu, S., Bishop, W.R. dan Liu, M. (2003) Differential effects of cell cycle regulatory protein p21 WAF1/Cip1 on apoptosis and sensitivity to cancer chemotherapy. *Drug Resistance Updates*, 6(4) 183–195.
- Liu, S., Li, Y., Yuan, M., Song, Q. dan Liu, M. (2023) Correlation between the Warburg effect and progression of triple-negative breast cancer. *Frontiers in Oncology*, 12(January) pp. 1–15.

- Liu, Z.L., Chen, H.H., Zheng, L.L., Sun, L.P. dan Shi, L. (2023) Angiogenic signaling pathways and anti-angiogenic therapy for cancer. *Signal Transduction and Targeted Therapy*, 8(1) 1–39.
- Long, J., Zhang, C.-J., Zhu, N., Du, K., Yin, Y.-F., Tan, X., Liao, D.-F. dan Qin, L. (2018) Lipid metabolism and carcinogenesis, cancer development. *American journal of cancer research*, 8(5) 778–791.
- Lü, L., Zhang, L., Wai, M.S.M., Yew, D.T.W. dan Xu, J. (2012) Exocytosis of MTT formazan could exacerbate cell injury. *Toxicology in Vitro*, 26(4) 636–644.
- Lu, T. dan Chen, Q. (2020) van der Waals potential: an important complement to molecular electrostatic potential in studying intermolecular interactions. *Journal of Molecular Modeling*, 26(11) 1–9.
- Łukasik, P., Załuski, M. dan Gutowska, I. (2021) Cyclin-dependent kinases (Cdk) and their role in diseases development—review. *International Journal of Molecular Sciences*, 22(6) 1–33.
- Maadi, H., Soheilifar, M.H. dan Wang, Z. (2022) Analysis of Cell Cycle by Flow Cytometry. *Methods in Molecular Biology*, 2579 183–195.
- Mabberley, D.J. (2017) *Mabberley's Plant-Book: A Portable Dictionary of Plants, their Classification and Uses (4th ed.)*. Vol. 74. Cambridge University Press.
- Mahabusarakam, W., Chairerk, P. dan Taylor, W.C. (2005) Xanthones from *Garcinia cowa* Roxb. latex. *Phytochemistry*, 66(10) 1148–1153.
- Mark, P. dan Nilsson, L. (2001) Structure and dynamics of the TIP3P, SPC, and SPC/E water models at 298 K. *Journal of Physical Chemistry A*, 105(43) 9954–9960.
- Martínez, L. (2015) Automatic identification of mobile and rigid substructures in molecular dynamics simulations and fractional structural fluctuation analysis. *PLoS ONE*, 10(3) 1–10.
- McKinnon, K.M. (2018) Flow cytometry: An overview. *Current Protocols in Immunology*, 120(1) 5–10.
- McNutt, A.T., Francoeur, P., Aggarwal, R., Masuda, T., Meli, R., Ragoza, M., Sunseri, J. dan Koes, D.R. (2021) GNINA 1.0: molecular docking with deep learning. *Journal of Cheminformatics*, 13(1) 1–20.
- McNutt, A.T., Li, Y., Meli, R., Aggarwal, R. dan Koes, D.R. (2025) GNINA 1.3: the next increment in molecular docking with deep learning. *Journal of Cheminformatics*, 17(1), pp. 67-76.
- Meadows, S.L., Gennings, C., Carter, W.H. dan Bae, D.S. (2002) Experimental designs for mixtures of chemicals along fixed ratio rays. *Environmental Health Perspectives*, 110(SUPPL. 6) 979–983.

- Meechai, I.M.R.O.N., Phupong, W.O.R.R.A.P.O.N.G., Chunglok, W. dan Meepowpan, P., 2016. Anti-radical activities of xanthonenes and flavonoids from *Garcinia schomburgkiana*. *International Journal of Pharmacy and Pharmaceutical Sciences*, 8(9), pp.235-238.
- Meiyanto, E., Hermawan, A. dan Anindyajati (2012) Natural products for cancer-targeted therapy: Citrus flavonoids as potent chemopreventive agents. *Asian Pacific Journal of Cancer Prevention*, 13(2) 427–436.
- Migliaccio, I., Paoli, M., Risi, E., Biagioni, C., Biganzoli, L., Benelli, M. dan Malorni, L. (2022) PIK3CA co-occurring mutations and copy-number gain in hormone receptor positive and HER2 negative breast cancer. *npj Breast Cancer*, 8(1) 1–10.
- Modzelewski, A.J., Chen, S., Willis, B.J., Lloyd, K.C.K., Wood, J.A. dan He, L. (2018) Efficient mouse genome engineering by CRISPR-EZ technology. *Nature Protocols*, 13(6) 1253–1274.
- Moerman, F. dan Mager, K. (2016) Cleaning and Disinfection in Dry Food Processing Facilities. *Handbook of Hygiene Control in the Food Industry: Second Edition*, 521–554.
- Mohsin, S.K., Weiss, H.L., Gutierrez, M.C., Chamness, G.C., Schiff, R., DiGiovanna, M.P., Wang, C.X., Hilsenbeck, S.G., Osborne, C.K., Allred, D.C., Elledge, R. dan Chang, J.C. (2005) Neoadjuvant trastuzumab induces apoptosis in primary breast cancers. *Journal of Clinical Oncology*, 23(11) 2460–2468.
- Montemurro, F., Valabrega, G. dan Aglietta, M. (2006) Trastuzumab treatment in breast cancer. *New England Journal of Medicine*, 354(20) 2186-2190.
- Mosele, F., Deluche, E., Lusque, A., Le Bescond, L., Filleron, T., Pradat, Y., Ducoulombier, A., Pistilli, B., Bachelot, T., Viret, F., Levy, C., Signolle, N., Alfaro, A., Tran, D.T.N., Garberis, I.J., Talbot, H., Christodoulidis, S., Vakalopoulou, M., Droin, N., Stourm, A., Kobayashi, M., Kakegawa, T., Lacroix, L., Saulnier, P., Job, B., Deloger, M., Jimenez, M., Mahier, C., Baris, V., Laplante, P., Kannouche, P., Marty, V., Lacroix-Triki, M., Diéras, V. dan André, F. (2023) Trastuzumab deruxtecan in metastatic breast cancer with variable HER2 expression: the phase 2 DAISY trial. *Nature Medicine*, 29(8) 2110–2120.
- Mosmann, T. (1983) Rapid colorimetric assay for cellular growth and survival: Application to proliferation and cytotoxicity assays. *Journal of Immunological Methods* 65 (1–2) p.55–63.
- Mphahlele, R.R., Fawole, O.A., Makunga, N.P. dan Opara, U.L. (2016) Effect of drying on the bioactive compounds, antioxidant, antibacterial and antityrosinase activities of pomegranate peel. *BMC Complementary and Alternative Medicine*, 16(1) 1–12.
- Murray, A.W. (2004) Recycling the Cell Cycle: Cyclins Revisited. *Cell*, 116(2) 221–234.

- Mvondo, J.G.M., Matondo, A., Mawete, D.T., Bambi, S.-M.N., Mbala, B.M. dan Lohohola, P.O. (2021) In Silico ADME/T Properties of Quinine Derivatives using SwissADME and pkCSM Webserver. *International Journal of TROPICAL DISEASE & Health*, 42(11) 1–12.
- Nahta, R. dan O'Regan, R.M. (2012) Therapeutic implications of estrogen receptor signaling in HER2-positive breast cancers. *Breast Cancer Research and Treatment*, 135(1) 39–48.
- Nahta, R., Trent, S., Yang, C. dan Schmidt, E. V. (2003) Epidermal growth factor receptor expression is a candidate target of the synergistic combination of trastuzumab and flavopiridol in breast cancer. *Cancer Research*, 63(13) 3626–3631.
- Naik, A. dan Decock, J. (2022) Targeting of lactate dehydrogenase C dysregulates the cell cycle and sensitizes breast cancer cells to DNA damage response targeted therapy. *Molecular Oncology*, 16(4) 885–903.
- Nami, B., Maadi, H. dan Wang, Z. (2018) Mechanisms underlying the action and synergism of trastuzumab and pertuzumab in targeting HER2-positive breast cancer. *Cancers*, 10(10) pp. 56-60.
- Naoki, O., Arihiro, K., Toshiyuki, Y., Noriko, H., Fumio, K., Suyoshi, S., Makoto, K., Kentaro, H. dan Hattori, M. (2014) The genome landscape of the African Green Monkey kidney-derived vero cell line. *DNA Research*, 21(6) 673–683.
- Nayak, S., Panesar, P. dan Kumar, H. (2011) Non-genotoxic p53-activators and their significance as antitumor therapy of future. *Current medicinal chemistry*, 18(7) 1038-1049.
- Nayak, S. dan Sahu, S. (2019) Tumor suppressor protein p53 activating natural scaffolds as anticancer agents. *International Journal Of Research and Analytical Reviews*, 3 pp. 1–9.
- Nazre, M., Newman, M.F., Pennington, R.T. dan Middleton, D.J. (2018) Taxonomic revision of garcinia section garcinia (Clusiaceae). *Phytotaxa*, 373(1) 1–52.
- Nemeth, B.T., Varga, Z. V., Wu, W.J. dan Pacher, P. (2017) Trastuzumab cardiotoxicity: from clinical trials to experimental studies. *British Journal of Pharmacology*, 174(21) 3727–3748.
- Niles, A., Moravec, R. dan Riss, T. (2013) Update on *in vitro* cytotoxicity assays for drug development. *Expert Opinion on Drug Discovery*, 3(6) 655–669.
- Novikov, N.M., Zolotaryova, S.Y., Gautreau, A.M. dan Denisov, E. V. (2021) Mutational drivers of cancer cell migration and invasion. *British Journal of Cancer*, 124(1) 102–114.

- Osborne, C., Wilson, P. dan Tripathy, D. (2004) Oncogenes and Tumor Suppressor Genes in Breast Cancer: Potential Diagnostic and Therapeutic Applications. *The Oncologist*, 9(4) 361–377.
- Páll, S., Zhmurov, A., Bauer, P., Abraham, M., Lundborg, M., Gray, A., Hess, B. dan Lindahl, E. (2020) Heterogeneous parallelization and acceleration of molecular dynamics simulations in GROMACS. *Journal of Chemical Physics*, 153(13).
- Palmer, A.C. dan Sorger, P.K. (2017) Combination Cancer Therapy Can Confer Benefit via Patient-to-Patient Variability without Drug Additivity or Synergy. *Cell*, 171(7), pp. 1678-1691.
- Panichayupakaranant, P. dan Sakunpak, A. (2013) Quantitative HPLC analysis of chamuangone in *Garcinia cowa* leaf extracts. *Planta Medica*, 79(13), pp. 20-29.
- Panthong, K. (2006) *Tetraoxygenated xanthenes from the fruits of Garcinia cowa*. 67, pp. 999–1004.
- Parrinello, M. dan Rahman, A. (1981) Polymorphic transitions in single crystals: A new molecular dynamics method. *Journal of Applied Physics*, 52(12) 7182–7190.
- Pattamadilok, C. (2016) Xanthenes from *Garcinia cowa* flowers and their cytotoxicity. *Thai Journal of Pharmaceutical Sciences*, 31(5) 40.
- Paudel, H.R., Thapa, R. dan Poudel, P. (2023) *Garcinia cowa* Roxb. ex Choisy. *Himalayan Fruits and Berries*, 20 197–203.
- Paul, A. dan Zaman, M.K. (2022) A comprehensive review on ethnobotany, nutritional values, phytochemistry and pharmacological attributes of ten potent *Garcinia* species of South-east Asia. *South African Journal of Botany*, 148 39–59.
- Peña-Morán, O.A., Villarreal, M.L., Álvarez-Berber, L., Meneses-Acosta, A. dan Rodríguez-López, V. (2016) Cytotoxicity, post-treatment recovery, and selectivity analysis of naturally occurring podophyllotoxins from *Bursera fagaroides* var. *fagaroides* on breast cancer cell lines. *Molecules*, 21(8) 1–15.
- Pettersen, E.F., Goddard, T.D., Huang, C.C., Couch, G.S., Greenblatt, D.M., Meng, E.C. dan Ferrin, T.E. (2004) UCSF Chimera - A visualization system for exploratory research and analysis. *Journal of Computational Chemistry*, 25(13) 1605–1612.
- Phelan, K. dan May, K.M. (2016) Mammalian cell tissue culture techniques. *Current Protocols in Pharmacology*, 2016(June), pp. 12-23.
- Pieroni, M., Madeddu, F., Di Martino, J., Arcieri, M., Parisi, V., Bottoni, P. dan Castrignanò, T. (2023) MD–Ligand–Receptor: A High-Performance Computing Tool for Characterizing Ligand–Receptor Binding Interactions in Molecular Dynamics Trajectories. *International Journal of Molecular Sciences*, 24(14), pp. 45-56.

- Pires, D.E.V., Blundell, T.L. dan Ascher, D.B. (2015) pkCSM: Predicting small-molecule pharmacokinetic and toxicity properties using graph-based signatures. *Journal of Medicinal Chemistry*, 58(9) 4066–4072.
- Plaskova, A. dan Mlcek, J. (2023) New insights of the application of water or ethanol-water plant extract rich in active compounds in food. *Frontiers in Nutrition*, 10(3), pp. 67-72.
- Pohlmann, P.R., Mayer, I.A. dan Mernaugh, R. (2009) Resistance to trastuzumab in breast cancer. *Clinical Cancer Research*, 15(24) 7479–7491.
- Prayong, P., Barusrux, S. dan Weerapreeyakul, N. (2008) Cytotoxic activity screening of some indigenous Thai plants. *Fitoterapia*, 79(7–8) 598–601.
- Puspa Dewi, I., Sri Wahyuni, F. dan Aldi, Y. (2021) The Cytotoxic Effect of Ethanolic Extract of Dasun Tunggal and Garlic (*Allium sativum*) on Raw 264.7 Cells. *International Conference on Contemporary Science and Clinical Pharmacy*, (2), 30–34.
- Putra, P.P. dan Junaidin, J. (2022) *Simulasi dinamika molekuler protein-ligand, perhitungan MMPBSA and MMGBSA menggunakan GROMACS (1st ed.)*. Bandung: Future Science.
- Putri, D.E., Almahdy, A., Hamidi, D. dan Wahyuni, F.S. (2023) The Potential of *Taxus sumatrana* as a Candidate for Cancer Therapy. *The Journal of Food and Medicinal Plants*, 4(1) 1–7.
- Pyne, N. dan Paul, S. (2022) Screening of medicinal plants unraveled the leishmanicidal credibility of *Garcinia cowa*; highlighting Norcowanin, a novel anti-leishmanial phytochemical through in-silico study. *Journal of Parasitic Diseases*, 46(1) 202–214.
- Qie, S. dan Diehl, J.A. (2016) Cyclin D1, cancer progression, and opportunities in cancer treatment. *Journal of Molecular Medicine*, 94(12) 1313–1326.
- Rahim, F., Lucida, H., Sardi, V.F., Ismed, F. dan Putra, A.E. (2025) Characterization, Evaluation of Cytotoxic Activity Assay and Optimization of Nanoemulsion Delivery System Formulas of Tomato Lycopene (*Solanum Lycopersicum*. L). *International Journal of Applied Pharmaceutics*, 17(Special Issue 1) 75–81.
- Rahim, F., Putra, P.P., Ismed, F., Putra, A.E. dan Lucida, H. (2023) Molecular Dynamics, Docking and Prediction of Absorption, Distribution, Metabolism and Excretion of Lycopene as Protein Inhibitor of Bcl2 and DNMT1. *Tropical Journal of Natural Product Research*, 7(7) 3439–3444.
- Rahman, A.U., Khan, N.U., Khan, M., Khan, Z.U., Basit, A. dan Panichayupakaranant, P. (2024) A standardized chamuangone enriched extract from *Garcinia cowa* Roxb. leaves shows acute and sub-acute safety. *Journal of Ethnopharmacology*, (335), pp. 118-125.

- Rahman, A.U. dan Panichayupakaranant, P. (2024) Exploring the diverse biological activities of *Garcinia cowa*: Implications for future cancer chemotherapy and beyond. *Food Bioscience*, (61), pp. 10-20.
- Rasyid, R., Armin, F., Andayani, R. dan Rivai, H. (2018) Determination of Total Phenolic Content and Antioxidant Activities from Extract of the Leaf, Fruit Skin and Stem Bark of *Garcinia cowa* Roxb. *Int. J. Pharm. Sci. Med*, 3 24–32.
- Reyes-Lamothe, R. dan Sherratt, D.J. (2019) The bacterial cell cycle, chromosome inheritance and cell growth. *Nature Reviews Microbiology*, 17(8) 467–478.
- Reynolds, C.P. dan Maurer, B.J. (2005) Evaluating response to antineoplastic drug combinations in tissue culture models. *Methods in molecular medicine*, 110(2) 173–183.
- Ritthiwigrom, T., Laphookhieo, S. dan Pyne, S.G. (2013) Chemical constituents and biological activities of *Garcinia cowa* Roxb. *Maejo International Journal of Science and Technology*, 7(2) 212–231.
- Rodea-Palomares, I., Petre, A.L., Boltes, K., Leganés, F., Perdígón-Melón, J.A., Rosal, R. dan Fernández-Piñas, F. (2010) Application of the combination index (CI)-isobologram equation to study the toxicological interactions of lipid regulators in two aquatic bioluminescent organisms. *Water Research*, 44(2) 427–438.
- Rossi, F., Noren, H., Jove, R., Beljanski, V. dan Grinnemo, K.H. (2020) Differences and similarities between cancer and somatic stem cells: therapeutic implications. *Stem Cell Research and Therapy*, 11(1) 1–16.
- Ruan, J., Zheng, C., Liu, Y., Qu, L., Yu, H., Han, L., Zhang, Y. dan Wang, T., 2017. Chemical and biological research on herbal medicines rich in xanthenes. *Molecules*, 22(10), p.1698-1670.
- Rubin, S.M., Sage, J. dan Skotheim, J.M. (2020) Integrating Old and New Paradigms of G1/S Control. *Molecular Cell*, 80(2) 183–192.
- Saha, S., Ray, R. dan Paul, S. (2023) In Vitro screening and in silico docking analysis identifies two novel compound lecanoric acid and atranorin from *Parmotrema tinctorum*, exhibiting potent anti-hepatocarcinoma activity. *Biointerface Res Appl Chem*, (13(6) 1–21.
- Saikumar, P., Dong, Z., Mikhailov, V., Denton, M., Weinberg, J.M. dan Venkatachalam, M.A. (1999) Apoptosis: Definition, mechanisms, and relevance to disease. *American Journal of Medicine*, 107(5) 489–506.
- Saini, K.S., Loi, S., de Azambuja, E., Metzger-Filho, O., Saini, M.L., Ignatiadis, M., Dancey, J.E. dan Piccart-Gebhart, M.J. (2013) Targeting the PI3K/AKT/mTOR and Raf/MEK/ERK pathways in the treatment of breast cancer. *Cancer Treatment Reviews*, 39(8) 935–946.

- Sajjadi, S.E., Ghanadian, M., Haghighi, M. dan Mouhebat, L. (2015) Cytotoxic effect of *Cousinia verbascifolia* Bunge against OVCAR-3 and HT-29 cancer cells. *Journal of HerbMed Pharmacology*, 4(1) 15–19.
- Samar Al Bitar dan Hala Gali-Muhtasib (2019) The Role of the Cyclin Dependent Kinase Inhibitor. *Cancers*, 1(4), pp. 1–21.
- Sands, C.J., Gómez-Romero, M., Correia, G., Chekmeneva, E., Camuzeaux, S., Izzi-Engbeaya, C., Dhillon, W.S., Takats, Z. dan Lewis, M.R. (2021) Representing the Metabolome with High Fidelity: Range and Response as Quality Control Factors in LC-MS-Based Global Profiling. *Analytical Chemistry*, 93(4) 1924–1933.
- Sangour, M.H., Ali, I.M., Atwan, Z.W. dan Al Ali, A.A.A.L.A. (2021) Effect of Ag nanoparticles on viability of MCF-7 and Vero cell lines and gene expression of apoptotic genes. *Egyptian Journal of Medical Human Genetics*, 22(1) 1–11.
- Saraswathy, S.U.P., Lalitha, L.C.P., Rahim, S., Gopinath, C., Haleema, S., SarojiniAmma, S. dan Aboul-Enein, H.Y., 2022. A review on synthetic and pharmacological potential of compounds isolated from *Garcinia mangostana* linn. *Phytomedicine Plus*, 2(2), p.100-112
- Sari, I.W., Junaidin, J. dan Pratiwi, D. (2020) Studi molecular docking senyawa flavonoid herba kumis kucing (*orthosiphon stamineus* b.) pada reseptor α -glukosidase sebagai antidiabetes tipe 2. *Jurnal Farmagazine*, 7(2), pp. 54-60.
- Sarma, A., Sarmah, P. dan Kashyap, D. (2014) Evaluation of Nutraceutical properties and antioxidant activity of *Garcinia cowa* Roxb. ex Choisy fruits found in Assam (India). *World J Pharm Sci* 3, 3(12) 853–859.
- Sarwar, F. (2014) *Determination of Cytotoxic Activity of Different Parts of Garcinia Cowa*. East West University.
- Satria, D., Silalahi, J., Haro, G., Ilyas, S. dan Hasibuan, P.A.Z. (2019) Cell cycle inhibition of ethylacetate fraction of *zanthoxylum acanthopodium* DC. Fruit against T47D cells. *Open Access Macedonian Journal of Medical Sciences*, 7(5) 726–729.
- Saura, C., Bendell, J., Jerusalem, G., Su, S., Ru, Q., De Buck, S., Mills, D., Ruquet, S., Bosch, A., Urruticoechea, A., Beck, J.T., Di Tomaso, E., Sternberg, D.W., Massacesi, C., Hirawat, S., Dirix, L. dan Baselga, J. (2014) Phase Ib study of buparlisib plus trastuzumab in patients with HER2-positive advanced or metastatic breast cancer that has progressed on trastuzumab-based therapy. *Clinical Cancer Research*, 20(7) 1935–1945.
- Saurabh, S., Sivakumar, P.M., Perumal, V., Khosravi, A., Sugumaran, A. dan Prabhawathi, V. (2020) Molecular Dynamics Simulations in Drug Discovery and Drug Delivery. *Engineering Materials*, 275–301.
- Saxe, D.F., May, K.M. dan Priest, J.H. (2017) General cell culture principles and fibroblast culture. *The AGT Cytogenetics Laboratory Manual*, 119–172.

- Schepop, H.A.M. Van De, Jong, J.S. De, Diest, P.J. Van dan Baak, J.P.A. (1996) Counting of apoptotic cells: a methodological study in invasive breast cancer. *Clinical molecular pathology*, 49(4), pp. 214-220.
- Sharaf, B.M., Giddey, A.D., Alniss, H., Al-Hroub, H.M., El-Awady, R., Mousa, M., Almehtdi, A., Soares, N.C. dan Semreen, M.H. (2022) Untargeted Metabolomics of Breast Cancer Cells MCF-7 and SkBr3 Treated With Tamoxifen/Trastuzumab. *Cancer Genomics and Proteomics*, 19(1) 79–93.
- Sharma, R.A. (2000) Cancer chemoprevention: A clinical reality. *Journal of the Royal Society of Medicine*, 93(10) 518–520.
- Sharwan, G., Jain, P., Pandey, R. dan Shukla, S.S. (2015) Toxicity profile of traditional herbal medicine. *J Ayu Herb Med*, 2(4) 34–41.
- Sherr, C.J. dan Roberts, J.M. (1999) CDK inhibitors: Positive and negative regulators of G1-phase progression. *Genes and Development*, 13(12) 1501–1512.
- Sherr, C.J. dan Roberts, J.M. (2004) Living with or without cyclins and cyclin-dependent kinases. *Genes and Development*, 18(22) 2699–2711.
- Shou, J., Massarweh, S., Osborne, C.K., Wakeling, A.E., Ali, S., Weiss, H. dan Schiff, R. (2004) Mechanisms of tamoxifen resistance: Increased estrogen receptor-HER2/neu cross-talk in ER/HER2-positive breast cancer. *Journal of the National Cancer Institute*, 96(12) 926–935.
- Siddiqi, A., Long, L.M., Li, L., Marciniak, R.A. dan Kazhdan, I. (2008) Expression of HER-2 in MCF-7 breast cancer cells modulates anti-apoptotic proteins Survivin and Bcl-2 via the extracellular signal-related kinase (ERK) and phosphoinositide-3 kinase (PI3K) signalling pathways. *BMC Cancer*, 8 pp. 1–8.
- Singh, A., Vanga, S.K., Orsat, V. dan Raghavan, V. (2018) Application of molecular dynamic simulation to study food proteins: A review. *Critical Reviews in Food Science and Nutrition*, 58(16) 2779–2789.
- Sliwoski, G.R., Meiler, J. dan Lowe, E.W. (2014) Computational Methods in Drug Discovery Prediction of protein structure and ensembles from limited experimental data View project Antibody modeling, Antibody design and Antigen-Antibody interactions View project. *Computational Methods in Drug Discovery*, 66(1) 334–95.
- Sriyatep, T., Maneerat, W., Sripisut, T., Cheenpracha, S., Machan, T., Phakhodee, W., & Laphookhieo, S. (2014) Cowabenzophenones A and B, two new tetracyclo [7.3.3.3.3, 11.03, 7] tetradecane-2, 12, 14-trione derivatives, from ripe fruits of *Garcinia cowa*. *Fitoterapia*, 92 285-289.
- Stockert, J.C., Blázquez-Castro, A., Cañete, M., Horobin, R.W. dan Villanueva, Á. (2012) MTT assay for cell viability: Intracellular localization of the formazan product is in lipid droplets. *Acta Histochemica*, 114(8) 785–796.

- Suhandi, C., Fadhilah, E., Silvia, N., Atusholihah, A. dan Prayoga, R. (2021) Molecular Docking Study of Mangosteen (*Garcinia mangostana* L.) Xanthone-Derived Isolates as Anti Androgen. *Indonesian Journal of Cancer Chemoprevention*, 12(1) 11-20.
- Suharty, N., Sri Wahyuni, F. dan Dachriyanus (2018) Cytotoxic activity of ethanol extract of arbuscular mycorrhizal fungi induced ginger rhizome on T47D breast cancer cell lines. *Pharmacognosy Journal*, 10(6) 1133–1136.
- Sultana, H., Chetia, A., Saikia, A. dan Khan, N.J. (2023) An Updated Review on Extraction, Isolation, and Identification of Bioactive Compounds from Plant Extracts. *Scholars Academic Journal of Pharmacy*, 12(07) 154–171.
- Sumadi, I.W.J. dan Adiputra, N. (2020) Peranan p53 dalam perkembangan dan prognosis osteosarkoma: tinjauan pustaka. *Intisari Sains Medis*, 11(1) 41–46.
- Sun, L., Cai, L., Yu, Y., Meng, Q., Cheng, X., Zhao, Y., Sui, G. dan Zhang, F. (2007) Knockdown of S-phase kinase-associated protein-2 expression in MCF-7 inhibits cell growth and enhances the cytotoxic effects of epirubicin. *Acta Biochimica et Biophysica Sinica*, 39(12) 999–1007.
- Sun, Y.S., Zhao, Z., Yang, Z.N., Xu, F., Lu, H.J., Zhu, Z.Y., Shi, W., Jiang, J., Yao, P.P. dan Zhu, H.P. (2017) Risk factors and preventions of breast cancer. *International Journal of Biological Sciences*, 13(11) 1387–1397.
- Sung, H., Ferlay, J., Siegel, R.L., Laversanne, M., Soerjomataram, I., Jemal, A. dan Bray, F. (2021) Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA: A Cancer Journal for Clinicians*, 71(3) 209–249.
- Sunseri, J. dan Koes, D.R. (2021) Virtual screening with gnina 1.0. *Molecules*, 26(23), pp. 1–15.
- Sutomo, S., Kamali, D.N., Arnida, A., Normaidah, N. dan Sriyono, A. (2020) Pharmacognostic Study and Antioxidant Activity of Mundar (*Garcinia forbesii* King.) leaves from Banua Botanical Gardens of South Kalimantan. *Borneo Journal of Pharmacy*, 3(4) 209–215.
- Suvarnakuta, P., Chaweerungrat, C. dan Devahastin, S. (2011) Effects of drying methods on assay and antioxidant activity of xanthenes in mangosteen rind. *Food Chemistry*, 125(1) 240–247.
- Swope, W.C., Pitera, J.W. dan Suits, F. (2004) Describing protein folding kinetics by molecular dynamics simulations. 1. Theory. *Journal of Physical Chemistry B*, 108(21) 6571–6581.
- Talele, T., Khedkar, S. dan Rigby, A. (2010) Successful Applications of Computer Aided Drug Discovery: Moving Drugs from Concept to the Clinic. *Current Topics in Medicinal Chemistry*, 10(1) 127–141.

- Thawabteh, A., Juma, S., Bader, M., Karaman, D., Scrano, L., Bufo, S.A. dan Karaman, R. (2019) The biological activity of natural alkaloids against herbivores, cancerous cells and pathogens. *Toxins*, 11(11) pp. 89-96.
- Tinrat, S. (2022) Phytochemical screenings, antibacterial and anti-biofilm activities of *Garcinia cowa* Roxb. leaves extracts and its synergistic effect with antibiotic. *Pharmaceutical Sciences Asia*, 49(6), pp. 87-95.
- Toton, D., Lorenz, C.D., Rompotis, N., Martsinovich, N. dan Kantorovich, L. (2010) Temperature control in molecular dynamic simulations of non-equilibrium processes. *Journal of Physics Condensed Matter*, 22(7), pp. 675-680.
- Trisuwan, K. dan Ritthiwigrom, T. (2012) Benzophenone and xanthone derivatives from the inflorescences of *Garcinia cowa*. *Archives of pharmacol research*, 35 1733–1738.
- Tronina, T., Bartmańska, A., Popłoński, J., Rychlicka, M., Sordon, S., Filip-Psurska, B., Milczarek, M., Wietrzyk, J. dan Huszcza, E. (2023) Prenylated Flavonoids with Selective Toxicity against Human Cancers. *International Journal of Molecular Sciences*, 24(8), pp. 90-95.
- Tyagi, A.K., Agarwal, C., Chan, D.C.F. dan Agarwal, R. (2004) Synergistic anti-cancer effects of silibinin with conventional cytotoxic agents doxorubicin, cisplatin and carboplatin against human breast carcinoma MCF-7 and MDA-MB468 cells. *Oncology Reports*, 11(2) 493–499.
- Vermes, I., Haanen, C. dan Reutelingsperger, C. (2000) Flow cytometry of apoptotic cell death. *Journal of Immunological Methods*, 243(1–2) 167–190.
- Vieira, I.H.P., Botelho, E.B., de Souza Gomes, T.J., Kist, R., Caceres, R.A. dan Zanchi, F.B. (2023) Visual dynamics: a WEB application for molecular dynamics simulation using GROMACS. *BMC Bioinformatics*, 24(1) 1–8.
- Visconti, R., Della Monica, R. dan Grieco, D. (2016) Cell cycle checkpoint in cancer: A therapeutically targetable double-edged sword. *Journal of Experimental and Clinical Cancer Research*, 35(1) 1–8.
- Vivekanandhan, S. dan Knutson, K.L. (2022) Resistance to Trastuzumab. *Cancers*, 14(20). Pp. 87-96.
- De Vivo, M., Masetti, M., Bottegoni, G. dan Cavalli, A. (2016) Role of Molecular Dynamics and Related Methods in Drug Discovery. *Journal of Medicinal Chemistry*, 59(9) 4035–4061.
- Vu, T. dan Claret, F.X. (2012) Trastuzumab: Updated mechanisms of action and resistance in breast cancer. *Frontiers in Oncology*, 2(6), pp. 51–66.
- Wahyuni, F.S., Febria, S. dan Arisanty, D. (2017) Apoptosis induction of cervical carcinoma HeLa cells line by dichloromethane fraction of the rinds of *Garcinia cowa* Roxb. *Pharmacognosy Journal*, 9(4), pp. 89-94.

- Wahyuni, F.S., Putri, D.E., Putra, Y.U. dan Hamidi, D. (2024) Cytotoxic Activity Of *Taxus Sumatrana* (Miq.) De Laub. Bark, Leaves, and Shoots On Hela, T47d, and Mcf-7/Her2 Cell Lines. *International Journal of Applied Pharmaceutics*, 16(Special Issue 1) 93–98.
- Wahyuni, F.S., Shaari, K., Stanslas, J. dan Dachriyanus, H. (2016) Cytotoxic properties and complete nuclear magnetic resonance assignment of isolated xanthenes from the root of *Garcinia cowa* Roxb. *Pharmacognosy magazine*, 12(1), pp. 52-60.
- Wahyuni, F.S., Shaari, K., Stanslas, J., Lajis, N. dan Hamidi, D., 2015. Cytotoxic compounds from the leaves of *Garcinia cowa* Roxb. *Journal of Applied Pharmaceutical Science*, 5(2), pp.006-011.
- Wahyuni, Fatma Sri, Shaari, K., Stanslas, J., Lajis, N.H. dan Dachriyanus, D. (2015) Cytotoxic xanthenes from the stem bark of *Garcinia cowa* Roxb. *Journal of Chemical and Pharmaceutical Research*, 7(1) 227–236.
- Wahyuni, F.S., Sutma, S. dan Aldi, Y. (2011) Uji efek sitotoksik ekstrak etanol kulit buah asam kandis (*Garcinia cowa* Roxb.) terhadap sel kanker payudara T47D dengan metoda MTT (Microtetrazolium). *Jurnal Sains and Teknologi Farmasi*, 16(2) 209–215.
- Wahyuni, F.S., Syafrri, S., Permatasari, D., Hefni, D., Hamidi, D., Nomiza, N.A. dan Rezti, I.A. (2023) Cowanin induces apoptosis in breast cancer cells via Bcl-2 signaling pathway. *Journal of Complementary and Integrative Medicine* 20 (3) pp.631–636.
- Wahyuni, F.S., Triastuti, D.H. dan Arifin, H., 2015. Cytotoxicity study of ethanol extract of the leaves of asam kandis (*Garcinia cowa* Roxb.) on T47D breast cancer cell line. *Pharmacognosy Journal*, 7(6), pp. 34-40.
- Wan, S., Sinclair, R.C. dan Coveney, P. V. (2021) Uncertainty quantification in classical molecular dynamics. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 379(2197), pp. 78-80.
- Wang, J. song, Wang, H. juan dan Qian, H. li (2018) Biological effects of radiation on cancer cells. *Military Medical Research*, 5(1) 1–10.
- Wang, J. dan Wu, S.G. (2023) Breast Cancer: An Overview of Current Therapeutic Strategies, Challenge, and Perspectives. *Breast Cancer: Targets and Therapy*, (15), pp. 721–730.
- Wang, L., Wang, Y., Li, Yueyang, Zhou, L., Du, J., Wang, J., Liu, S.H., Cao, Y., Li, Yuzhi, Yang, W. dan Zhu, T. (2024) Resistance mechanisms and prospects of trastuzumab. *Frontiers in Oncology*, 14(11), pp. 1–12.
- Wang, Y., Shi, L.Y., Qi, W.H., Yang, J. dan Qi, Y. (2020) Anticancer activity of sugiol against ovarian cancer cell line SKOV3 involves mitochondrial apoptosis, cell cycle arrest and blocking of the RAF/MEK/ERK signalling pathway. *Archives of Medical Science*, 16(2) 428–435.

- Wang, Z.H., Zheng, Z.Q., Jia, S., Liu, S.N., Xiao, X.F., Chen, G.Y., Liang, W.Q. dan Lu, X.F. (2022) Trastuzumab resistance in HER2-positive breast cancer: Mechanisms, emerging biomarkers and targeting agents. *Frontiers in Oncology*, 12(10), pp. 1–9.
- Warrier, N.M., Agarwal, P. dan Kumar, P. (2020) Emerging Importance of Survivin in Stem Cells and Cancer: the Development of New Cancer Therapeutics. *Stem Cell Reviews and Reports*, 16(5), pp. 828–852.
- Widiandani, T., Tandian, T., Zufar, B.D., Suryadi, A., Purwanto, B.T., Hardjono, S. dan Siswandono (2023) In vitro study of pinostrobin propionate and pinostrobin butyrate: Cytotoxic activity against breast cancer cell T47D and its selectivity index. *Journal of Public Health in Africa*, 14(S1) 97–102.
- Wiecek, A.J., Cutty, S.J., Kornai, D., Parreno-Centeno, M., Gourmet, L.E., Tagliazucchi, G.M., Jacobson, D.H., Zhang, P., Xiong, L., Bond, G.L., Barr, A.R. dan Secrier, M. (2023) Genomic hallmarks and therapeutic implications of G0 cell cycle arrest in cancer. *Genome Biology*, 24(1) 1–35.
- Wu, G.S., Lu, J.J., Guo, J.J., Li, Y.B., Tan, W., Dang, Y.Y., Zhong, Z.F., Xu, Z.T., Chen, X.P. dan Wang, Y.T. (2012) Ganoderic acid DM, a natural triterpenoid, induces DNA damage, G1 cell cycle arrest and apoptosis in human breast cancer cells. *Fitoterapia*, 83(2) 408–414.
- Xia, Z., Zhang, H., Xu, D., Lao, Y., Fu, W., Tan, H. dan Cao, P. (2015) Xanthones from the Leaves of *Garcinia cowa* Induce Cell Cycle Arrest, Apoptosis, and Autophagy in Cancer Cells. *Molecules*, 20(6) 11387–11399.
- Xiao, Z., Chen, Z., Gunasekera, A.H., Sowin, T.J., Rosenberg, S.H., Fesik, S. dan Zhang, H. (2003) Chk1 mediates S and G2 arrests through Cdc25A degradation in response to DNA-damaging agents. *Journal of Biological Chemistry*, 278(24) 21767–21773.
- Xiong, S., Dong, L. dan Cheng, L. (2021) Neutrophils in cancer carcinogenesis and metastasis. *Journal of Hematology and Oncology*, 14(1) 1–17.
- Xu, J., Chen, Y. dan Olopade, O.I. (2010) MYC and Breast Cancer. *Genes and Cancer*, 1(6) 629–640.
- Yalavarthi, C. dan Thiruvengadarajan, V.S. (2013) A review on identification strategy of phyto constituents present in herbal plants. *International Journal of Research in Pharmaceutical Sciences*, 4(2) 123–140.
- Yam, C.H., Fung, T.K. dan Poon, R.Y.C. (2002) Cyclin A in cell cycle control and cancer. *Cellular and Molecular Life Sciences*, 59(8) 1317–1326.
- Yamari, I., Abchir, O., Siddique, F., Zaki, H., Errougui, A., Talbi, M., Bouachrine, M., ElKouali, M. dan Chtita, S. (2024) The anticoagulant potential of Lippia Alba extract in inhibiting SARS-CoV-2 Mpro: Density functional calculation, molecular docking analysis, and molecular dynamics simulations. *Scientific African*, 23(7), pp. 19-25.

- Yang, C., Chen, E.A. dan Zhang, Y. (2022) Protein–Ligand Docking in the Machine-Learning Era. *Molecules*, 27(14), pp. 1–24.
- Yang, G., Sau, C., Lai, W., Cichon, J. dan Li, W. (2015) BRAC1 and BRAC2 mutation and treatment strategies for breast cancer. *HHS Pulic Access*, 344(6188) 1173–1178.
- Yuvaraj, N., Srihari, K., Chandragandhi, S., Raja, R.A., Dhiman, G. dan Kaur, A. (2021) Analysis of protein-ligand interactions of SARS-CoV-2 against selective drug using deep neural networks. *Big Data Mining and Analytics*, 4(2) 76–83.
- Zhang, Fu, J.N. dan Chou, T.C. (2016) Synergistic combination of microtubule targeting anticancer fludelone with cytoprotective panaxytriol derived from panax ginseng against MX-1 cells in vitro: Experimental design and data analysis using the combination index method. *American Journal of Cancer Research*, 6(1) 97–104.
- Zhang, Q.W., Lin, L.G. dan Ye, W.C. (2018) Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine (United Kingdom)*, 13(1) 1–26.
- Zhao, H. dan Caflisch, A. (2015) Molecular dynamics in drug design. *European Journal of Medicinal Chemistry*, 9(1), 4–14.
- Zhao, S., Ohara, S., Kanno, Y., Midorikawa, Y., Nakayama, M., Makimura, M., Park, Y. dan Inouye, Y. (2013) HER2 overexpression-mediated inflammatory signaling enhances mammosphere formation through up-regulation of aryl hydrocarbon receptor transcription. *Cancer Letters*, 330(1), pp. 41–48
- Zhao, Wientjes, M.G. dan Au, J.L.S. (2004) Evaluation of combination chemotherapy: Integration of nonlinear regression, curve shift, isobologram, and combination index analyses. *Clinical Cancer Research*, 10(23) 7994–8004.
- Zhou, J., Liu, M., Aneja, R., Chandra, R., Lage, H. dan Joshi, H.C. (2006) Reversal of P-glycoprotein-mediated multidrug resistance in cancer cells by the c-Jun NH2-terminal kinase. *Cancer Research*, 66(1) 445–452.