DAFTAR PUSTAKA

Ali, A., and Ali, A., 2024, Identification of Naturally Occurring Flavonoids as Anticancer Agents: *In Silico* Studies, *J. Indian Chem. Soc*. 101(9), 1-18.

Anonim, 2024[a], Cancer Today, *International Agency for Research on Cancer*. http://gco.iarc.fr/ - Diakses September 2024.

Anonim, 2024[b], Strategi Indonesia dalam Upaya Melawan Kanker, *Rencana Kanker Nasional 2024-2034*, www.kemkes.go.id/ -Diakses Desember 2024.

Anwar, C., Prasetyo, Y.D., Matsjeh, S., Haryadi, W., Sholikhah, E.N., and Nendrowati, 2018, Synthesis of Chalcone Derivatives and Their in vitro Anticancer Test against Breast (T47D) and Colon (WiDr) Cancer Cell Line, *Indones. J. Chem.*, 18(1), 102-107.

Amin, K.M., Eissa, A.A.M., Seri, S.M.A., Awadallah, F.M., and Hassan, G.S., 2013, Synthesis and Biological Evaluation of Novel Coumarin-Pyrazoline Hybrids Endowed with Phenylsulfonyl Moiety as Antitumor Agents, *Eur. J. Med. Chem.*, 60, 187-198.

Amin, S., Supriatna, G.T., Ardian, M.I., dan Abdurrahman, M.I., 2024, Potensi Senyawa Turunan Terpenoid sebagai Agen Anti-Kanker. *Jurnal Imu Medis Indonesia,* 4(1), 53-61.

Balachandran, R.S., and Kipreos, E.T., 2017, Addressing a Weakness of Anticancer Therapy with Mitosis Inhibitors: Mitotic Slippage, *Mol. Cell. Oncol*., 4(2), 1-6.

Balatif, R., dan Sukma, A.A.M., 2021, Memahami Kaitan Gaya Hidup dengan Kanker: sebagai Langkah Awal Pencegahan Kanker, *Sci. Med. J.,* 3(1), 40-50.

Basanagouda, M., Jambagi, V.B., Barigidad, N.N., Laxmeshwar, S.S., Devaru, V., Narayanachar, 2014. Synthesis, structure-activity relationship of iodinated-4-aryloxymethyl-coumarins as potential anti-cancer and anti-mycobacterial agents. *Eur. J. Med. Chem*. 74, 225–233.

Belsare, D.P., Pal, S.C., Kazi, A.A., Kankate, R.S., and Vanjari, S.S., 2010, Evaluation of Antioxidant Activity of Chalcones and Flavonoids, *Int. J. Chemtech Res.,* 2(2), 1080–1089.

Chiocca, E.A., and Rabkin, S.D., 2014, Oncolytic Viruses and Their Application to Cancer Immunotherapy, *Cancer Immunol. Res*., 2(4), 295-300.

Damasuri, A.R., Sholikhah, E.N., and Mustofa, 2020, Cytotoxicity of ((E)-1-(4-aminophenyl)-3-phenylprop-2-en-1-one)) on HeLa cell line, *IJPTher*, 1(2), 54-59.

Deka, D., Das, S.R.C., Da, T., Chakraborty, P., Kar, K., and Chowdhury, S., 2025, Chalcone Derivatives: *In Silico* Design, Molecular Docking Study and Anticancer Activity on MCF-7 Cells, *In Silico Research in Biomedicine*, 1, 1-12.

Emami, S., and Dadashpour, S., 2015. Current Developments in Coumarin-Based Anti-Cancer Agents in Medicinal Chemistry. *Eur. J. Med. Chem.*, 102, 611-630.

Ganot, N., Meker, S., Reytman, L., Tzubery, A., Tshuva, E.Y., 2013, Anticancer Metal Complexes: Synthesis and Cytotoxicity Evaluation by the MTT Assay, *J. Vis. Exp.,* 81, e50767.

Han, B., Zheng, R., Zeng, H., Wang, S., Sun, K., Chen, R., Li, L., Wei, W., He, J., 2024, Cancer incidence and mortality in China, 2022. *J. Natl. Cancer Cent.*, 4(1), 47-53.

Hu, C.M., Luo, Y.X., Wang, W.J., Li, J.P., Li, M.Y., Zhang, Y.F., Xiao, D., Lu, L., Xiong, Z., Feng, N., and Li, C., 2022, Synthesis and Evaluation of Coumarin-Chalcone Derivatives as α-Glucosidase Inhibitors, *Front. Chem,* 10, 1-8.

Huiskes, M., Kong, W., Oud, M., Crama, K., Rasch, C., Breedveld, S., Henjimen, B., and Astreinidou, E., 2024, Validation of Fully Automated Robust Multicriterial Treatment Planning for Head and Neck Cancer IMPT, *Int. J. Radiat. Oncol. Biol. Phys.,* 119(3), 968-977.

Jayapal, M.R., Prasad, K.S., and Sreedhar, N.Y., 2010, Synthesis and Characterization of 4-Hydroxychalcones by Aldol Condensation Using $SOCl_2$/EtOH. *Int. J. Curr. Pharm. Res.*, 4(2), 60-62.

Johnson, H.M., Irish, W., Vohra, N.A., and Wong, J.H., 2021, Refining Breast Cancer Prognosis by Incorporating Age at Diagnosis into Clinical Prognostic Staging: Introduction of Novel Online Calculator, *Breast Cancer Res. Treat.*, 187(3), 805-814.

Kamble, R.R., Sathe, B.S., Jadhav, V.M., and Kadam, V.J., 2011, Synthesis and Biological Evaluation of Some New Chalcones Containing 2,4-Thiazolidinedione, *J. Chem. Pharm. Res.*, 3(3), 404-410.

Kumar, S., Shukla, M.K., Sharma, A.K., Jayaprakash, G.K., Tonk, R.K., Chellappan, D.K., Singh, S.K., Dua, K., Ahmed, F., Bhattacharyya, S., and Kumar, D., 2023, Metal-based Nanomaterials and Nanocomposites as Promising Frontier in Cancer Chemotherapy, *Med. Comm.*, 4, 1-26.

Kurt, B.Z., Kandas, N.O., Dag, A., Sonmez, F., and Kucukislamoglu, M., 2020, Synthesis and Biological Evaluation of Novel Coumarin-Chalcone Derivatives Containing Urea Moiety as Potential Anticancer Agents, *Arab. J. Chem*., 13, 1120-1129.

Li, J., Feng, J., Li, M., Wang, Q., Su, Y., and Jia, Z., 2013, Studies of Manufacturing Controlled-Release Graphene Acid and Catalyzing Synthesis of Chalcone with Claisene Schmidt Condensation Reaction, *Solid State Sci*., 21, 1-5.

McCauley, J., Zivanovic, A., and Skropeta, D., 2013, Bioassays for Anticancer Activities, *Methods Mol. Biol.*, 1055, 191-205.

Machana, S., Weerapreeyakul, N., Barusrux, S., Nonpunya, A., Sripanidkulchai, B., and Thitimetharoch, T., 2011, Cytotoxic and apoptotic effects of six herbal plants against the human hepatocarcinoma (HepG2) cell line, *Chin. Med.*, 6(39), 1-8.

Mai, C.W., Yaeghoobi, M., Abd-Rahman, N., Kang, Y.B., Pichika, M.R., 2014. Chalcones with electron-withdrawing and electron-donating substituents: anticancer activity against TRAIL resistant cancer cells, structure-activity relationship analysis and regulation of apoptotic proteins. *Eur. J. Med. Chem*. 77, 378–387.

Millan-Casarrubias, E.J, García-Tejeda, Y.V., González-De laRosa, C.H., Ruiz-Mazón, L., Hernández-Rodríguez, Y.M., and Cigarroa-Mayorga, O.E., 2025, Molecular Docking and Pharmacological *In Silico* Evaluation of Camptothecin and Related Ligands as Promising HER2-Targeted Therapies for Breast Cancer, *Curr. Issues Mol. Biol*, 193(47), 1-20.

Mosmann, T., 1983, Rapid Colorimetric Assay for Cellular Growth and Survival: Application to Proliferation and Cytotoxicity Assays, *J. Immunol. Methods.*, 65, 55-63.

Nivedya, T., Roy, N., Paira, P., and Chakrabarty, R., 2025, Synthesis, Characterization and Biological Evaluation of Novel Chalcone Derivatives Bearing Different Heterocyclic Moieties, *RSC Advances, 15*(15), 11617–11638.

Patel, A., 2020, Benign vs Malignant Tumors, *JAMA Oncol.*, 6(9), 1488.

Patel, M., Pandey, N., Timaniya, J., Parikh, P., Chauhan, A., Jain, N., and Patel, K., 2021, Coumarin–Carbazole Based Functionalized Pyrazolines: Synthesis, Characterization, Anticancer Investigation and Molecular Docking, *RSC Adv.*, 11, 27627-276444.

Patel, S., Challagundla, N., Rajput, R.A., and Mishra, S., 2022, Design, Synthesis, Characterization and Anticancer Actipatevity Evaluation of Deoxycholic Acid-Chalcone Conjugates, *Bioorg. Chem*., 127, 1-8.

Patil, C.B., Mahajan, S.K., and Katti, S.A., 2009, Chalcone: A Versatile Molecule, *J. Pharm. Sci. Res.*, 1(3), 11-12.

Perez-Cruz, F., Vazquez-Rodriguez, S., Matos, M.J., Herrera-Morales, A., Villamena, F.A., Das, A., Gopalakrishnan, B., Olea-Azar, C., Santana, L., Uriarte, E., 2013. Synthesis and electrochemical and biological studies of novel coumarin-chalcone hybrid compounds. *J. Med. Chem*. 56, 6136–6145.

Pingaew, R., Saekee, A., Mandi, P., Nantasenamat, C., Prachayasittikul, S., Ruchirawat, S., Prachayasittikul, V., 2014. Synthesis, biological evaluation, and molecular docking of novel chalconecoumarin hybrids as anticancer and antimalarial agents. *Eur. J. Med. Chem*. 85, 65–76.

Rahama, M.S., Khairuddean, M., Ismail, N.Z., Al-Amin, M., and Salhimi, S.M.,

2025, Synthesis, Characterization and In Silico Studies of Coumarin-Chalcone Derivatives and Their Cytotoxicity Activity Against Breast Cancer Cells, *J. Mol. Struct.*, 1322(2), 1-16.

Rahman, M.A., 2011, Chalcone: A Valuable Insight into the Recent Advances and Potential Pharmacological Activities, *Chem. Sci. J.,* 29, 1-16.

Romero, Y., Tittenburn, Z., Trapani, D., Given, L., Hohman, K., and Cira, M.K., 2025, The Changing Global Landscape of National Cancer Control Plans, *Lancet Oncol.*, 26 (1), 46-54.

Samota, M.K., Yadav, D.K., Koli, P., Kaur, M., Kaur, M., Rani, H., Selvan, S.S., Mahala, P., Tripathi, K., and Kumar, S., 2024, Exploring Natural Chalcones: Innovative Extraction Techniques, Bioactivities, and Health Potential, *Sustain. Food Technol*., 2(5), 1456-1468.

Shah, S., Narang, R., Singh, V.J., Pilli, G., and Nayak, S.K., 2023, A Review on Anticancer Profile of Flavonoids: Sources, Chemistry, Mechanisms, Structure-activity Relationship and Anticancer Activity, *Curr. Drug Res. Rev.*, 15(2), 122–148.

Shao, Q., Zhang, W., Lang, H., Wang, Y., Tang, H., Dua, J., Liang, Y., Jing, P., Gu, Z., Yan, X., and Shang, L., 2025, Development and Application of Patient-Reported Experience Measures for Cancer Patients: a Scoping Review, *Int. J. Nurs. Stud. Adv.,* 8, 1-13.

Sobiesiak, M., Fatyga, N., Brzozowski, A., Sikora, A., Kupcewicz, B., and Maj, M., 2025, Chromanone derivatives: Evaluating Selective Anticancer Activity Across Human Cell Lines, *Eur. J. Med. Chem.*, 295, 1-8.

Tanamatayarat, P., Limtrakul, P.N., Chunsakaow, S., and Duangrat, C., 2003, Screening of Some Rubiaceous Plants for Cytotoxic Activity Against Cervix Carcinoma (KB-3-1) Cell Line, *Thai J. Pharm. Sci.*, 3(4), 167-172.

Trayes, K.P., and Cokenakes, S.E.H., 2021, Breast Cancer Treatment, *Am. Fam. Physician*, 104(2), 171-178.

Usman, H., Jalaluddin, M.N., Harlim, T., Hakim, E.H., Achmad, S.A., Syah, Y.M., Latip, J., dan Said, M., 2006, Senyawa Kalkon Baru Bersifat Anti-Bakteri dari Tumbuhan *Cryptocarya Costata* (*Lauraceae*), *Berkala MIPA*, 16(1), 37-40.

Vazquez-Rodriguez, S., Lopez, R.L., Matos, M.J., Armesto-Quintas, G., Serra, S., Uriarte, E., Santana, L., Borges, F., Crego, A.M., Santos, Y., 2015. Design, synthesis and antibacterial study of new potent and selective coumarin-chalcone derivatives for the treatment of tenacibaculosis. *Bioorg. Med. Chem.,* 23, 7045–7052.

Wang, E.J., Chen, J.S., Jain, S., Morshed, R.A., Haddad, A.F., Gill, S., Beniwal, A.S., and Aghi, M.K., 2021, Immunotherapy Resistance in Glioblastoma, *Front. Genet*., 12, 1-22.

Wang, M., Wang, Y., and Zhang, H., 2025, Dietary Polyphenols for Tumor Therapy:

Bioactivities, Nano-therapeutic Systems and Delivery Strategies, *Food Funct.*, 16, 853-866.

Wang, X., Gong, Z., Wang, T., Law, J., Chen, X., Wanggou, S., Wang, J., Ying, B., Fransisco, M., Dong, W., Xiong, Y., Fan., J.J., MacLeod, G., Angers, S., Li, Z., Dirks, P.B., Liu, X., Huang, X., and Sun, Y., 2023, Mechanical Nanosurgery of Chemoresistant Glioblastoma using Magnetically Controlled Carbon Nanotubes, *Sci. Adv.*, 9, 1-14.

Weerapreeyakul, N., Nonpunya, A., Barusrux, S., Thitumetharoch, T., and Sripanidkulchai, B., 2012, Evaluation of the Anticancer Potential of Six Herbs Against a Hepatoma Cell Line, *Chin. Med.*, 7(15), 1-7.

Wei, H., Ruan, J.L., Zhang, X.J., 2016. Coumarin-Chalcone Hybrids: Promising Agents with Diverse Pharmacological Properties. *Rsc Adv.*, 6, 10846–10860.

Zhang, C., Xu, C., Gao, X., and Yao, Q., 2022, Platinum-Based Drugs for Cancer Therapy and Anti-Tumor Strategies, *Theranostics*, 12(5), 2115-2132.