

DAFTAR PUSTAKA

- Aljabali, A. A. A., Obeid, M. A., Bashatwah, R. M., Qnais, E., Gammoh, O., Alqudah, A., Mishra, V., Mishra, Y., Khan, M. A., Parvez, S., El-Tanani, M., & Hatahet, T. (2025). Phytochemicals in Cancer Therapy: A Structured Review of Mechanisms, Challenges, and Progress in Personalized Treatment. *Chemistry and Biodiversity*, 1–22. <https://doi.org/10.1002/cbdv.202402479>
- Bolat, Z. B., Islek, Z., Demir, B. N., Yilmaz, E. N., Sahin, F., Celia, C., & Mascolo, D. Di. (2020). *Curcumin- and Piperine-Loaded Emulsomes as Combinational Treatment Approach Enhance the Anticancer Activity of Curcumin on HCT116 Colorectal Cancer Model*. 8(February), 1–21. <https://doi.org/10.3389/fbioe.2020.00050>
- Cheraghi, S. (2025). *Investigating the Anticancer Properties of Nanocurcumin : A look at its Chemical Structure and Biological Mechanisms*. 285–296. <https://doi.org/10.22034/bmc.2025.522430.1058>
- Cinar, B., Alp, E., Al-Mathkour, M., Boston, A., Dwead, A., Khazaw, K., & Gregory, A. (2021). The Hippo pathway: an emerging role in urologic cancers. *American Journal of Clinical and Experimental Urology*, 9(4), 301–317.
- Devaraji, M., & Thanikachalam, P. V. (2025). Phytoconstituents as emerging therapeutics for breast cancer: Mechanistic insights and clinical implications. *Cancer Pathogenesis and Therapy*, March. <https://doi.org/10.1016/j.cpt.2025.02.006>
- Febriani Wisnawa, A. D. (2022). Potensi Kurkumin Kombinasi Silibinin (Cur-Sil)-Loaded Nanopartikel Magnetik (Fe₃O₄) Termodifikasi [Poly(Ethylene Caprolactone)-Poly(Ethylene Glycol) (PCL-PEG)] Ko-polimer sebagai Inhibitor Gen Leptin dalam Tata Laksana Kanker Paru. *Cermin Dunia Kedokteran*, 49(1), 35–42. <https://doi.org/10.55175/cdk.v49i1.187>
- Franconi, R., Massa, S., Paolini, F., Vici, P., & Venuti, A. (2020). Plant-derived natural compounds in genetic vaccination and therapy for HPV-associated cancers. *Cancers*, 12(11), 1–38. <https://doi.org/10.3390/cancers12113101>
- Fumarola, S., Cianfruglia, L., Cecati, M., Giammarchi, C., Vaiasicca, S., & Gasparrini, M. (2025). Polyphenol Intake in Elderly Patients: A Novel Approach to Counteract Colorectal Cancer Risk? *International Journal of Molecular Sciences*, 26(6), 1–25. <https://doi.org/10.3390/ijms26062497>
- Habib, H., Veronikasari, P., Soraya, R., & Nursyam, M. (2025). *ALCHEMY Jurnal Penelitian Kimia Nanostructured Lipid Carriers Termodifikasi Kitosan dari Cangkang Keong Mas (Nanostructured Lipid Carriers Modified with*

- Chitosan from Golden Apple Snail Shells (Pomacea canaliculata) as Controlled and Targeted Curcumin.* 21(2), 264–276. <https://doi.org/10.20961/alchemy.21.2.92355.264-276>
- Hasan, A. A., Tatarskiy, V., & Kalinina, E. (2022). Synthetic Pathways and the Therapeutic Potential of Quercetin and Curcumin. *International Journal of Molecular Sciences*, 23(22). <https://doi.org/10.3390/ijms232214413>
- Hatamipour, M., Hadizadeh, F., Jaafari, M. R., Khashyarmanesh, Z., Kesharwani, P., McCloskey, A. P., & Sahebkar, A. (2022). Formulation development and in vitro–in vivo anticancer potential of novel nanoliposomal fluorinated curcuminoids. *Process Biochemistry*, 122, 250–257. <https://doi.org/https://doi.org/10.1016/j.procbio.2022.09.001>
- Hon, K. W., & Naidu, R. (2024). Synergistic Mechanisms of Selected Polyphenols in Overcoming Chemoresistance and Enhancing Chemosensitivity in Colorectal Cancer. In *Antioxidants* (Vol. 13, Issue 7). <https://doi.org/10.3390/antiox13070815>
- Howaili, F., Özliseli, E., Küçüktürkmen, B., & Razavi, S. M. (2021). *Stimuli-Responsive , Plasmonic Nanogel for Dual Delivery of Curcumin and Photothermal Therapy for Cancer Treatment.* 8(January), 1–17. <https://doi.org/10.3389/fchem.2020.602941>
- Islam, R., Hossain, M., Mock, P. Y., Leong, S., & Lam, D. (2023). MEDICINAL CHEMISTRY RESEARCH Exploring the potential of chromone scaffold compounds in cancer therapy: targeting key kinase pathways. *Medicinal Chemistry Research*, 32. <https://doi.org/10.1007/s00044-023-03063-5>
- Kumari, M., Sharma, N., Manchanda, R., Gupta, N., & Syed, A. (2021). OPEN PGMD / curcumin nanoparticles for the treatment of breast cancer. *Scientific Reports*, 1–17. <https://doi.org/10.1038/s41598-021-81701-x>
- Li, W., Zhang, J., Yang, Y., Qian, Y.-W., & Zhou, D. (2021). The Curcumin Analog EF24 is Highly Active Against Chemotherapy- Resistant Melanoma Cells. *Current Cancer Drug Targets*, 21. <https://doi.org/10.2174/1568009621666210303092921>
- Lu, X., Zhang, P., Li, J., Zhou, Y., Wang, B., & Lu, Z. (2024). The effect of doxorubicin curcumin co - loaded lipid nanoparticles and doxorubicin on osteosarcoma before surgery. *Cancer Nanotechnology*, 1–11. <https://doi.org/10.1186/s12645-024-00247-5>
- Luh, N., Anggi, P., & Suwantari, A. (2024). *Strategi Peningkatan Bioavailabilitas Oral Kurkumin Menggunakan Self-Microemulsifying Drug Delivery System (SMEDDS) : Narrative Review.* 3, 402–412.

- Mardaneh, P., Lavian, S., Bagherniya, M., Roufogalis, B., & Sahebkar, A. (2024). Synthetic Curcumin Analogs in the Treatment of Cancer: A Literature Review. *Current Medicinal Chemistry*.
<https://doi.org/10.2174/0109298673256932231123151626>
- Meiyanto, E. (2020). *New Curcumin Analog , CCA-1 . 1 , Synergistically Improves the Antiproliferative Effect of Doxorubicin Against T47D Breast Cancer*. 31(4), 244–256.
- Moravedeh, R., Samadnezhad, N. Z., Asadalizadeh, M., Abbasi, M., & Nadaki, A. (2025). *Enhanced Anticancer Potential of Curcumin-Loaded Liposomal Nanoparticles in Oral Cancer Treatment*. 10(2), 293–299.
<https://doi.org/10.31557/APJCB.2025.10.2.293>
- Mukherjee, D., Dash, P., Ramadass, B., & Mangaraj, M. (2022). *Nanocurcumin in Oral Squamous Cancer Cells and Its Efficacy as a Chemo-Adjuvant*. 14(December 2021). <https://doi.org/10.7759/cureus.24678>
- Othman, A. K., Kurdi, R. El, Badran, A., Mesmar, J., Baydoun, E., & Patra, D. (2022). *Liposome-based nanocapsules for the controlled release of dietary curcumin : PDDA and silica nanoparticle-coated DMPC liposomes enhance the fluorescence efficiency and anticancer activity of*. 11282–11292.
<https://doi.org/10.1039/d2ra00071g>
- Pastena, P., Perera, H., Martinino, A., Kartsonis, W., & Giovinazzo, F. (2024). Unraveling Biomarker Signatures in Triple-Negative Breast Cancer: A Systematic Review for Targeted Approaches. *International Journal of Molecular Sciences*, 25(5). <https://doi.org/10.3390/ijms25052559>
- Prima Aulia Putra, L. C., Pramundita, A., & Anshory, H. (2025). PERAN PENTING SELF-NANOEMULSIFYING DRUG DELIVERY SYSTEM (SNEDDS) DALAM MENINGKATKAN EFEKTIFITAS EKSTRAK HERBAL DALAM PENGOBATAN DI INDONESIA: REVIEW ARTIKE. *Angewandte Chemie International Edition*, 6(11), 951–952., 4(April), 23–37.
- Saputra, O. A., Safitriyono, W. N., Maharani, D. E. K., Febiana, A., & Wibowo, F. R. (2023). pH-controlled release feature of chitosan assembled silica nanoparticles containing nano-formulated curcumin over in vitro gastric and physiological condition. *Food Bioscience*, 53, 102793.
<https://doi.org/https://doi.org/10.1016/j.fbio.2023.102793>
- Singh, M., Rubis, G. De, Kokkinis, S., Raj, K., Yeung, S., Michael, P., Gregory, B., Oliver, G., & Dua, K. (2024). Pathology - Research and Practice Curcumin-loaded liposomes modulating the synergistic role of EpCAM and estrogen receptor alpha in lung cancer management. *Pathology - Research and*

- Practice*, 257, 155317. <https://doi.org/10.1016/j.prp.2024.155317>
- Song, H., Chou, J., Zhao, P., Chen, M., Yang, J., & Hao, X. (2025). Exploring TGFBR3 in disease pathogenesis: Mechanisms, clinical implications, and pharmacological modulation. *Journal of Pharmaceutical Analysis*, 101372. <https://doi.org/https://doi.org/10.1016/j.jpha.2025.101372>
- Sung, H., Ferlay, J., Siegel, R. L., Laversanne, M., Soerjomataram, I., Jemal, A., & 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. <https://doi.org/10.3322/caac.21660>
- Trofin, A.-M., Scripcariu, D. V., Filipiuc, S.-I., Neagu, A.-N., Filipiuc, L.-E., Tamba, B.-I., Palaghia, M. M., & Uritu, C. M. (2025). From Nature to Nanomedicine: Enhancing the Antitumor Efficacy of Rhein, Curcumin, and Resveratrol. *Medicina (Kaunas, Lithuania)*, 61(6). <https://doi.org/10.3390/medicina61060981>
- Tsai, Y., Miyajima, H., Chou, M., & Fujita, S. (2025). *Curcumin-Loaded Polysaccharide Nanoparticles Enhance Aqueous Dispersibility and In Vitro Cytotoxicity in Breast Cancer Cell Lines*. 1–22.
- Tusan, P. O. (2024). *Inovasi Penghantaran Obat : Pengembangan Liposom untuk Efektivitas Kurkumin pada Kunyit (Curcuma Longa L .)*. 3, 372–383.
- Wang, S., Marr, L. C., Contreras, L. M., Theis, F. J., & Nurse, P. (2022). The challenges in finding your home as a multidisciplinary scientist. *Cell*, 185(15), 2623–2625. <https://doi.org/10.1016/j.cell.2022.06.044>
- Xiong, L., Wei, Y., Si, H., Li, Z., Wen, J., Liu, F., Yang, H., Chen, L., Pi, C., Han, Y., Zhao, L., Xiong, L., Wei, Y., Si, H., & Li, Z. (2024). *Development of the Curcumin Analog CA7 Liposome and Its Evaluation for Efficacy Against Cervical Cancer in vitro and in vivo Development of the Curcumin Analog CA7 Liposome and Its Evaluation for Efficacy Against Cervical Cancer in vitro and in vivo*. 9114. <https://doi.org/10.2147/IJN.S493074>
- Yeo, S., Kim, M. J., Shim, Y. K., Yoon, I., & Lee, W. K. (2022). *Solid Lipid Nanoparticles of Curcumin Designed for Enhanced Bioavailability and Anticancer Efficiency*. <https://doi.org/10.1021/acsomega.2c04407>
- Zhang, J., Peng, Y., Hu, S., Xu, J., Yu, C., & Hua, L. (2025). *Therapeutic application of curcumin and its nanoformulation in dentistry : Opportunities and challenges*. 12(May), 148–172. <https://doi.org/10.3934/molsci.2025010>
- Zheng, Y., Feng, N., Li, C., & Li, Z. (2025). Natural products target programmed

cell death signaling mechanisms to treat colorectal cancer. *Frontiers in Pharmacology*, 16(April), 1–26. <https://doi.org/10.3389/fphar.2025.1565332>

Zhong, J., Liang, W., Wang, T., Chau, P. H., Davies, N., Zhao, J., Chu, H. N. C., & Lin, C. C. (2025). Digital Decision Aids to Support Decision-Making in Palliative and End-of-Life Dementia Care: Systematic Review and Meta-Analysis. *Journal of Medical Internet Research*, 27, 1–18. <https://doi.org/10.2196/71479>

Zhou, X.-H., Luo, Y.-X., & Yao, X.-Q. (2025). Exercise-driven cellular autophagy: A bridge to systematic wellness. *Journal of Advanced Research*. <https://doi.org/https://doi.org/10.1016/j.jare.2024.12.036>

Zhu, Y., Wu, W., Hou, D., Zhao, Y., Ye, J., Shen, L., Zhao, T., & Wu, X. (2025). Mechanism of Curcumol Targeting the OTUB1/TGFB1 Ubiquitination Pathway in the Inhibition of Angiogenesis in Colon Cancer. *International Journal of Molecular Sciences*, 26(10), 1–21. <https://doi.org/10.3390/ijms26104899>