

DAFTAR PUSTAKA

1. PRATAMA PR, ISMAN F, FADLAN A. Minyak Atsiri Bunga Michelia Alba Secara in Silico. *al-Kimiya J Ilmu Kim dan Terap*. 2022;9(1):1–9.
2. Kemkes. Penyakit Kanker di Indonesia Berada Pada Urutan 8 di Asia Tenggara dan Urutan 23 di Asia [Internet]. <https://p2p.kemkes.go.id>. 2019. Available from: <https://p2p.kemkes.go.id/penyakit-kanker-di-indonesia-berada-pada-urutan-8-di-asia-tenggara-dan-urutan-23-di-asia/>
3. Dewantari R, Lintang ML. Jenis Tumbuhan yang Digunakan sebagai Obat Tradisional Di Daerah Eks-Karesidenan Surakarta. *Bioedukasi [Internet]*. 2018;11(2):118–23. Available from: <http://dx.doi.org/10.20961/bioedukasi-uns.v11i2.19672>
4. Ramadhan R, Ul-Haq K, Phuwapraisirisan P, Puspitasari FA, Suwito H. α -GLUCOSIDASE INHIBITORY ACTIVITIES AND ANTIOXIDANT PROPERTIES OF DEPSIDONE FROM *Garcinia parvifolia*. *Rasayan J Chem*. 2023;16(3):1811–7.
5. Tjokrosonto S, Wahyuono S, Mustofa dan, Farmakologi Fakultas Farmasi Universitas Pancasila B, Parasitologi Fakultas Kedokteran Universitas Gadjah Mada B, Biologi Farmasi Fakultas Farmasi Universitas Gadjah Mada B, et al. Aktivitas antiplasmodium dari dua fraksi ekstrak n-heksana kulit batang asam kandis (*Garcinia parvifolia* Miq) Antiplasmodial activity of two fractions obtained from n-hexane extract of *Garcinia parvifolia* Miq stem bark. *Syamsudin Maj Farm Indones*. 2007;18(4):210–5.
6. Egra S, Kuspradini H, Kusuma IW, Batubara I, Yamauchi K, Mitsunaga T. Garcidepsidone B from *Garcinia parvifolia*: antimicrobial activities of the medicinal plants from East and North Kalimantan against dental caries and periodontal disease pathogen. *Med Chem Res*. 2023;32(8):1658–65.
7. Adnan A, Allaudin ZN, Hani H, Loh HS, Khoo TJ, Ting KN, et al. Virucidal activity of *Garcinia parvifolia* leaf extracts in animal cell culture. *BMC Complement Altern Med*. 2019;19(1):1–10.
8. Ali Hassan SH, Fry JR, Abu Bakar MF. Phytochemicals content, antioxidant activity and acetylcholinesterase inhibition properties of indigenous *garcinia parvifolia* fruit. *Biomed Res Int*. 2013;2013.
9. Rukachaisirikul V, Naklue W, Phongpaichit S, Towatana NH, Maneenoon K. Phloroglucinols, depsidones and xanthenes from the twigs of *Garcinia parvifolia*. *Tetrahedron*. 2006;62(36):8578–85.
10. Xu YJ, Lai YH, Imiyabir Z, Goh SH. Xanthenes from *Garcinia parvifolia*. *J Nat Prod*. 2001;64(9):1191–5.
11. Wahyuni FS, Putri IN, Arisanti D. Sub-chronic toxicity evaluation of ethyl acetate fraction of fruit rind of “asam kandis” (*Garcinia cowa* Roxb.) against liver and kidney function of female white mice. *J Sains Farm Klin [Internet]*. 2017;3(2):202–12. Available from: <http://jsfkonline.org/index.php/jsfk/article/view/126>
12. Lin CY. Chemical constituents and biological activities from *Garcinia Maingayi* and *Garcinia Parvifolia*. *Pertanika J Sci Technol*. 2007;15(2):95–102.
13. Syamsudin Chandra Wiguna .; Brata. AKTIVITAS SITOTOKSIK EKSTRAK KULIT BATANG ASAM KANDIS (*Garcinia parvifolia* (Miq)Miq) PADA SEL VERO DAN HeLa. *J Bahan Alam Indones [Internet]*. 2008;(Vol 6, No 5 (2008)). Available from: <http://jbai.perhipba.org/index.php/jurnal/article/view/128>
14. Leonardus B.S. Kardono, Muhammad Hanafi, Gatot Sherley SK and LJH. Bioactive Constituents of *Garcinia porrecta* and *G. parvifolia* Grown in Indonesia [Internet]. Pakistan: Pakistan Journal of Biological Sciences; 2006. Available from: <https://scialert.net/fulltext/fulltextpdf.php?pdf=ansinet/pjbs/2006/483-486.pdf>
15. Godasu, S. K, G. Anusha, D. Varun, Nimma.vijayarekha, Praveen Gujjula GSK. Evaluation of Anticancer Activity of Various Extracts of Fruits of *Garcinia Pedunculata* Using Cervical Cancer Cell Line by Invitro Methods. *Int J Allied Med Sci Clin Res*. 2023;11(1):82–91.
16. Wahyuni FS, Triastuti DH, Arifin H. Cytotoxicity study of ethanol extract of the leaves of asam kandis (*Garcinia cowa* Roxb.) on T47D breast cancer cell line. *Pharmacogn J*. 2015;7(6):369–71.
17. Darwati D, Safitri AN, Ambardhani N, Mayanti T, Nurlelasari N, Kurnia D. 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 Des Devel Ther.* 2021;15(August):3523–33.
18. Joharman, Poerwono H, Sukardiman. Cytotoxicity effect of the pericarp extracts of *garcinia forbesii* king on MCF-7 breast cancer and HepG2 liver cancer cell lines. *Pharmacogn J.* 2021;13(1):226–9.
 19. Tan WN, Azizi J, Omar NAC, Leong CR, Tong WY. Essential Oils of *Garcinia* spp. and Their Biological Activities. *Malaysian J Med Heal Sci.* 2023;19(Supplement 9):289–97.
 20. Adward KK, Salleh WMNH, Salihu AS, Ghani NA, Arzmi MH, Khamis S. Chemical composition and cytotoxicity of *Garcinia urophylla* Scort. ex King essential oil. *Riv Ital delle Sostanze Grasse.* 2024;101(1):45–9.
 21. Narko T, Permana B, Prasetyawati R, Soni D, Khairiyah F, Au L, et al. MOLECULAR DOCKINGSTUDYOF BULB OF BAWANG DAYAK (*Eleutherine Palmifolia* (L) Merr)COMPOUND AS ANTI SERVICAL CANCER. *J Ilm Farm Bahari [Internet].* 2017;8(2):1–14. Available from: <http://pubchem.ncbi.nlm.nih.gov>
 22. Lim TK. Edible medicinal and non-medicinal plants: Volume 2, fruits. *Edible Med Non-Medicinal Plants Vol 2, Fruits.* 2012;2:1–1088.
 23. Syamsudin, Kumala S, Sutaryo B. Screening of some extracts from *Garcinia parvifolia* miq. (*Guttiferae*) for antiplasmodial, antioxidant, cytotoxic and antibacterial activities. Vol. 6, *Asian Journal of Plant Sciences.* 2007. p. 972–6.
 24. Sri H, Megawati M, Lucia DA. Parvidepsidone, a Novel Depsidone from the Barks of *Garcinia parvifolia* Miq. *Nat Prod Sci.* 2022;28(1):13–7.
 25. Żukowska G, Durczyńska Z. Properties and Applications of Essential Oils: A Review. *J Ecol Eng.* 2024;25(2):333–40.
 26. Liang J, Zhang Y, Chi P, Liu H, Jing Z, Cao H, et al. Essential oils: Chemical constituents, potential neuropharmacological effects and aromatherapy - A review. *Pharmacol Res - Mod Chinese Med [Internet].* 2023;6(December 2022):100210. Available from: <https://doi.org/10.1016/j.prmcm.2022.100210>
 27. Said-Al Ahl H, Hikal W, Mahmoud A. Essential oils: biosynthesis, chemistry and biological functions. *J Chem Pharm Res.* 2017;9(8):190–200.
 28. Dhifi W, Bellili S, Jazi S, Bahloul N, Mnif W. Essential Oils' Chemical Characterization and Investigation of Some Biological Activities: A Critical Review. *Medicines.* 2016;3(4):25.
 29. de Sousa DP, de Assis Oliveira F, Arcanjo DDR, da Fonsêca DV, Duarte ABS, de Oliveira Barbosa C, et al. Essential Oils: Chemistry and Pharmacological Activities—Part II. *Biomedicines.* 2024;12(6).
 30. Sofiani V, Pratiwi R. Pemanfaatan Minyak Atsiri Pada Tanaman Sebagai Aromaterapi Dalam Sediaan-Sediaan Farmasi. *Farmaka.* 2019;15(2):119–31.
 31. Larasati AG, Purba FF, Kusuma IW, Kuspradini R. H. Sifat Fisiko-Kimia dan Aktivitas Antimikroba Minyak Atsiri Tumbuhan *Actinodaphne glomerata*. *Teknotan.* 2023;17(2):137.
 32. Bansal T, Tanu B, Harpreet K. Benefits of essential oil. Available online www.jocpr.com *J Chem Pharm Res [Internet].* 2016;8(6):143–9. Available from: <https://www.researchgate.net/publication/318461256>
 33. Ramadhanti A, Nurjanah S, Widyasanti A, Ainina N. Pemodelan kondisi hidrodistilasi minyak atsiri jahe merah (*Zingiber officinale* var. *Roscoe*) dengan menggunakan Response Surface Methodology. *J Teknol Ind Pertan.* 2024;18(2):429–39.
 34. Asfiah S. Modifikasi Deanstark Upaya Efisiensi Proses Distilasi Uap Minyak Biji Pala Dalam Praktikum Kimia Organik. *Indones J Lab.* 2020;2(1):10.
 35. Aziz ZAA, Ahmad A, Setapar SHM, Karakucuk A, Azim MM, Lokhat D, et al. Essential Oils: Extraction Techniques, Pharmaceutical And Therapeutic Potential - A Review. *Curr Drug Metab.* 2018;19(13):1100–10.
 36. Meng J, Chen X, Yang W, Song J, Zhang Y, Li Z, et al. Gas chromatography-mass spectrometry analysis of essential oils from five parts of Chaihu (*Radix Bupleuri Chinensis*). *J Tradit Chinese Med [Internet].* 2014;34(6):741–8. Available from: [http://dx.doi.org/10.1016/S0254-6272\(15\)30090-X](http://dx.doi.org/10.1016/S0254-6272(15)30090-X)
 37. Hotmian E, Suoth E, Fatimawali F, Tallei T. ANALISIS GC-MS (GAS

- CHROMATOGRAPHY - MASS SPECTROMETRY) EKSTRAK METANOL DARI UMBI RUMPUT TEKI (*Cyperus rotundus* L.). *Pharmacon*. 2021;10(2):849.
38. Salamah N, Guntarti A. Analisis Instrumen: Kromatografi dan Elektroforesis. Uad Press. 2023;viii–42.
 39. Hashibuan N. Kromatografi Gas. In: Institut sains dan Teknologi Nasional. PT.Pena Persada Kerta Utama; 2022. p. 18.
 40. Vadakedath S, Kandi V, Godishala V, Bharat Kumar Pinnelli V, Sami Alkafaas S, Sami Elkafas S. The Principle, Types, and Applications of Mass Spectrometry: A Comprehensive Review. *Biomed Biotechnol*. 2022;7(1):6–22.
 41. Setiawan H, Irawan MI. Kajian Pendekatan Penempatan Ligan Pada Protein Menggunakan Algoritma Genetika. *J Sains dan Seni ITS*. 2017;6(2):2–6.
 42. Roni A, Maruf A, Marlioni L. Uji SITOTOKSIK EKSTRAK TANAMAN GANDARIA (*Bouea macrophylla* Griff) TERHADAP SEL HeLa. *J Kim Ris*. 2021;6(1):39.
 43. Berridge M V., Herst PM, Tan AS. Tetrazolium dyes as tools in cell biology: New insights into their cellular reduction. *Biotechnol Annu Rev*. 2005;11(SUPPL.):127–52.
 44. Syahputra G, Ambarsari L, Sumaryada T. Simulasi Docking Kurkumin Enol, Bisdemetoksikurkumin dan Analognya sebagai Inhibitor Enzim 12-Lipoksigenase. *J Biofisika*. 2014;10(1):55–67.
 45. Morris GM, Ruth H, Lindstrom W, Sanner MF, Belew RK, Goodsell DS, et al. Software news and updates AutoDock4 and AutoDockTools4: Automated docking with selective receptor flexibility. *J Comput Chem*. 2009;30(16):2785–91.
 46. Velázquez-Libera JL, Durán-Verdugo F, Valdés-Jiménez A, Valdés-Jiménez A, Núñez-Vivanco G, Caballero J. LigRMSD: A web server for automatic structure matching and RMSD calculations among identical and similar compounds in protein-ligand docking. *Bioinformatics*. 2020;36(9):2912–4.
 47. Frimayanti N, Lukman A, Nathania L. Studi molecular docking senyawa 1,5-benzothiazepine sebagai inhibitor dengue DEN-2 NS2B/NS3 serine protease. *Chempublish J*. 2021;6(1):54–62.
 48. Agustin T. Potensi Metabolit Aktif Dalam Sayuran Cruciferous Untuk Menghambat Pertumbuhan Sel Kanker. *J Penelit Perawat Prof*. 2019;1(November):89–94.
 49. Vera Novalia. Kanker Serviks . *Galen J Kedokt dan Kesehat Mhs Malikussaleh* . 2023;2(1):45–56.
 50. Dinas kesehatan aceh. Kanker Serviks Penyebab Kematian Tertinggi Wanita Indonesia, 70 Persen Penderita Terlambat Terdeteksi. 2024;
 51. Suryati S, Aziz ED, Efdi M, Wahyuni FS, Hefni D. Analysis of the essential oil from *Lantana camara* leaves and its cytotoxic potential against T-47D breast cancer cells. *J Ris Kim*. 2021;12(1):1–9.
 52. Malau ND, Azzahra SF. Analisa docking cyanidin 3,5-di-(6-malonylglucoside) terhadap reseptor *Plasmodium falciparum* Enoyl Acyl Carrier Protein Reductase (PfENR) sebagai antimalaria. *J Pendidikan, Mat dan Sains [Internet]*. 2019;4(1):99–110. Available from: <http://ejournal.uki.ac.id/index.php/edumatsains/article/view/1048>
 53. Pitaloka AD, Nurhijrah CY, Musyaffa HA, Azzahra AM. Molecular Docking of Chemical Constituents of Dayak Onion (*Eleutherine palmifolia* (L.) Merr) towards VHR Receptors as Candidates for Cervical Anticancer Drugs. *Indones J Biol Pharm [Internet]*. 2023;3(2):83–95. Available from: <https://www>.
 54. Suryati, Hefni D, Wahyuni FS, Dachriyanus. The cytotoxicity study of *lantana camara* Linn essential oil on HeLa cancer cells line. *Pharmacogn J*. 2021;13(6):1498–501.
 55. Sjafaraenan, Johannes E, Wulandari SN. PENGARUH INTERVAL DOSIS 2,44-19,53 µg/mL EKSTRAK N-HEKSANA DARI HYDROID *Aglaopheniapressina* LAMOUREOUX TERHADAP AKTIVITAS PERTUMBUHAN SELHELA. *BIOMA J Biol Makassar*. 2019;4(1):11–9.
 56. Iskandar AF, Nurjanah S, Rosalinda S, Nuranjani F. Penyulingan Minyak Atsiri Jahe Merah (*Zingiber officinale* var. *Rubrum*) Menggunakan Metode Hidrodistilasi dengan Variasi Waktu Penyulingan. *Teknotan*. 2023;17(1):53.
 57. Nuriah S, Putri MD, Rahayu S, Advaita CV, Nurfadhila L, Utami MR. Analisis Kualitatif Senyawa Parasetamol Pada Sampel Biologis Menggunakan Metode Gas Chromatography - Mass Spectrometry (GC-MS). *J Pharm Sci*. 2023;6(2):795–803.

58. Hala DM, Mutalib A, Indriani S, Poleuleng AB, Nurnawati AA. Analisis Kandungan Senyawa Kimia Pada Biji Kakao Panggang Terfermentasi Asal Sulawesi Selatan Menggunakan Gas Chromatography Mass Spectrometry (GC-MS). *ProperJurnal Penelit Pertan Terap*. 2023;1(1):105–11.
59. Channar PA, Bano S, Hassan S, Perveen F, Saeed A, Mahesar PA, et al. Appraisal of novel azomethine-thioxoimidazolidinone conjugates as ecto-5'-nucleotidase inhibitors: synthesis and molecular docking studies. *RSC Adv*. 2022;12(27):17596–606.
60. El Rhabori S, El Aissouq A, Daoui O, Elkhatabi S, Chtita S, Khalil F. Design of new molecules against cervical cancer using DFT, theoretical spectroscopy, 2D/3D-QSAR, molecular docking, pharmacophore and ADMET investigations. *Heliyon* [Internet]. 2024;10(3):e24551. Available from: <https://doi.org/10.1016/j.heliyon.2024.e24551>
61. Naufa F, Mutiah R, Yen Y, Indrawijaya A. Studi in Silico Potensi Senyawa Katekin Teh Hijau (*Camellia sinensis*) sebagai Antivirus SARS CoV-2 terhadap Spike Glycoprotein (6LZG) dan Main Protease (5R7Y). *JFood PharmSci* [Internet]. 2021;2022(1):584–96. Available from: www.journal.ugm.ac.id/v3/JFPA
62. Afliana D, Ariyanti D. Analisis Molecular Docking Senyawa Metabolit Sekunder Asal Isolat *Trichoderma* sp . Terhadap Reseptor Enzim Cutinase Pada Penyakit Layu *Fusarium*. 2024;2(2):25–39.
63. Martínez-Lobos M, Silva V, Villena J, Jara-Gutiérrez C, Vera Quezada WE, Montenegro I, et al. Phytoconstituents, Antioxidant Activity and Cytotoxicity of *Puya chilensis* Mol. Extracts in Colon Cell Lines. *Plants*. 2024;13(21):1–11.
64. Molaae N, Mosayebi G, Pishdadian A, Eftehadifar M, Ganji A. Evaluating the Proliferation of Human Peripheral Blood Mononuclear Cells Using MTT Assay. *Int J Basic Sci Med*. 2017;2(1):25–8.
65. Sukma LC, Da'i M. UJI AKTIVITAS ANTIPROLIFERATIF DAN INDUKSI APOPTOSIS EKSTRAK ETANOL DAUN KEMANGI (*Ocimum sanctum* L.) TERHADAP SEL MCF-7. *Usadha J Pharm*. 2022;1(2):177–85.
66. Zulfa E, Susilowati S, Budiarti A. Uji Sitotoksitas Ekstrak Metanol Umbi Bit (*Beta vulgaris* L. var. *rubra* L.) Terhadap Cell Line T47D. *J Ilmu Farm dan Farm Klin*. 2015;12(1):20–5.
67. Grever MR, Schepartz SA, Chabner BA. The National Cancer Institute: cancer drug discovery and development program. *Semin Oncol*. 1992 Dec;19(6):622–38.
68. Ghasemi M, Turnbull T, Sebastian S, Kempson I. The mtt assay: Utility, limitations, pitfalls, and interpretation in bulk and single-cell analysis. *Int J Mol Sci*. 2021;22(23).
69. Hutomo S, Susilowati H, Suryanto YI, Kurniawan C. Perubahan morfologi sel HeLa setelah paparan ekstrak etanolik *Curcuma longa*. *Maj Kedokt Gigi Indones*. 2017;2(1):1.
70. Susilowati S, Anggraini TD, Kotimah N. Sitotoksitas dan Selektivitas In Vitro Daun Benalu Cengkeh (*Dendrophthoe pentandra* L. Miq) terhadap Sel Kanker Serviks HeLa. *J Pharmascience*. 2022;9(2):258.
71. Sharifi-Rad J, Sureda A, Tenore GC, Daglia M, Sharifi-Rad M, Valussi M, et al. Biological activities of essential oils: From plant chemoeology to traditional healing systems. Vol. 22, *Molecules*. 2017.
72. Kamiloglu S, Sari G, Ozdal T, Capanoglu E. Guidelines for cell viability assays. 2020;(August):332–49.