

DAFTAR PUSTAKA

1. Bray F, Laversanne M, Sung H, Ferlay J, Siegel RL, Soerjomataram I. Global Cancer Statistics 2022: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA Cancer J Clin.* 2024;74(3):229–63.
2. Ferlay J, Colombet M, Soerjomataram I, Parkin DM, Piñeros M, Znaor A. Cancer Statistics for The Year 2022: An Overview. *Int J Cancer.* 2021;149(4):778–89.
3. Dinas Kesehatan Kota Bandung. Profil Dinas Kesehatan Kota Bandung Tahun 2019. 2020.
4. Stromal TM, Induced C, Plava J, Cihova M, Burikova M, Bohac M. Permanent Pro-Tumorigenic Shift in Adipose by Breast Malignancy. 2020.
5. Al-mazroa SA, Alkhatlan HZ. Simple and Efficient One Step Synthesis of Functionalized Flavanones and Chalcones. 2012.
6. Wahyuni FS, Putri IN, Arisanti D. Uji Toksisitas Subkronis Fraksi Etil Asetat Kulit Buah Asam Kandis (*Garcinia cowa* Roxb.) terhadap Fungsi Hati dan Ginjal Mencit Putih Betina. *J Sains Farm Klin.* 2017;3(2):202.
7. Phukhatmuen P, Raksat A, Laphookhieo S, Charoensup R. Heliyon Bioassay-guided Isolation and Identification of Antidiabetic Compounds from *Garcinia cowa* Leaf Extract. *Heliyon.* 2020.
8. Ritthiwigrom T, Laphookhieo S, Pyne SG. Journal of Science and Technology Chemical Constituents and Biological Activities of *Garcinia cowa* Roxb . 2013;7(02):212–31.
9. Wahyuni FS. Cytotoxicity Study of Ethanol Extract of the Leaves of Asam Kandis (*Garcinia cowa* Roxb.) on T47D Breast Cancer Cell line. 2016.
10. Wahyuni FS, Shaari K, Stanslas J, Lajis NH. Research Article Cytotoxic Xanthenes from The Stem Bark of *Garcinia cowa* Roxb OMe 5a O.

2015;7(1):227–36.

11. Sinha A. Apoptosis (A Programmed Cell Death). *Brazilian J Biol.* 2020;6984:1133–43.
12. Suvarna V, Singh V, Murahari M. Current Overview on The Clinical Update of Bcl-2 Anti-apoptotic Inhibitors for Cancer Therapy. *Eur J Pharmacol.* 2019;862:172655.
13. Wahyuni FS, Syafri S, Permatasari D, Hefni D, Hamidi D, Azizah NN. Cowanin Induces Apoptosis in Breast Cancer Cells Via Bcl-2 Signaling Pathway. *J Complement Integr Med.* 2023;20(3):631–6.
14. Patiño-García D, Rocha-Pérez N, Moreno RD, Orellana R. Antigen Retrieval by Citrate Solution Improves Western Blot Signal. *Methods.* 2019;6:464–8.
15. Darwati D, Nurlelasari N, Herlina T, Mayanti T. Depsidon Dari Buah Tumbuhan Asam Kandis (*Garcinia cowa*). *Chim Nat Acta.* 2018;6(1):25.
16. Beno J, Silen A., Yanti M. Phytochemicals from Root Barks of *Garcinia cowa* Roxb. and Antioxidant Activity. *Braz Dent J.* 2022;33(1):1–12.
17. Tjitrosoepomo G. Taksonomi Tumbuhan (Spermatophyta). Yogyakarta: Universitas Gadjah Mada Press; 2002.
18. Paudel HR, Thapa R, Poudel P. *Garcinia cowa* Roxb. ex Choisy. Himal Fruits Berries Bioact Compd Uses Nutraceutical Potential. 2022:197–203.
19. Atreya PN. Biodiversity of Neglected and Underutilized Fruits of Nepal : A Review. 2020;5(4):470–83.
20. Lim TK. Edible Medicinal and Non-Medicinal Plants. *Edible Med Non-Medicinal Plants.* 2016;10:1–659.
21. Wahyuni FS, Suharti N, Susanti M, Hefni D, Dachtriyanus. Potensi Sitotoksik Senyawa Santon dari Tumbuhan *Garcinia Cowa* Roxb Terhadap Sel Kanker Payudara T47D. 2020;22–4.
22. Kaennakam S, Siripong P, Tip-pyang S. Kaennacowanols A–C, Three New Xanthones and Their Cytotoxicity from The Roots of *Garcinia cowa*.

- Fitoterapia. 2015;102:171–6.
23. Wahyuni FS, Shaari K, Stanslas J, Lajis N, Hamidi D. Cytotoxic Compounds from The Leaves of *Garcinia cowa* Roxb. *J Appl Pharm Sci*. 2015;5(2):006–11.
 24. Sriyatep T, Maneerat W, Sripisut T, Cheenpracha S, Machan T, Phakhodee W. Cowabenzophenones A and B, Two New Tetracyclo[7.3.3.3.3,11.0 3,7]Tetradecane-2,12,14-Trione Derivatives, from Ripe Fruits of *Garcinia cowa*. *Fitoterapia*. 2014;92:285–9.
 25. Mahabusarakam W, Chairerk P, Taylor WC. Xanthoness from *Garcinia cowa* Roxb . *Latex*. 2006;1148–53.
 26. Wahyuni FS, Ali DAI, Lajis NH, Dachriyanus. Anti-inflammatory Activity of Isolated Compounds from The Stem Bark of *Garcinia cowa* Roxb. *Pharmacogn J*. 2017;9(1):55–7.
 27. Sriyatep T, Siridechakorn I, Maneerat W, Pansanit A. Bioactive Prenylated Xanthoness from The Young Fruits and Flowers of *Garcinia cowa*.
 28. Newman DJ, Cragg GM. Natural Products as Sources of New Drugs Over the Nearly Four Decades from 01/1981 to 09/2019. 2020.
 29. Santos CMM, Freitas M, Fernandes E. A Comprehensive Review on Xanthone Derivatives as α -glucosidase Inhibitors. *Eur J Med Chem*. 2018.
 30. Willcox JK, Ash SL, Catignani GL, Willcox JK, Ash SL, Catignani GL. Antioxidants and Prevention of Chronic Disease Antioxidants and Prevention. 2010.
 31. Rahman M, Das AK, Uddin MF, Saha K. Antioxidant and Cytotoxicity Study on The Successive Extracts of Leaves, Stems, and Roots The Medicinal Plant *Garcinia Cowa* in Bangladesh. *World J Pharm*. 2023;12(6):27–44.
 32. Hefni D, Dachriyanus, Wahyuni FS, Yerizel E, Arisanty D, Yusra LN. 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 Eng Inf Technol*. 2020;10(5):2164–9.
33. Darwati dkk. Santon dari Kulit Batang Tumbuhan Asam Kandis (*Garcinia cowa*). 2012.
 34. Darwati B, Husen H, Supriyatna D. Kowanin, Suatu Santon dari Kulit Batang *Garcinia cowa* Roxb. *J Natur Indones*. 2012;11(2):109.
 35. Husni E, Nahari F, Warasti Y. 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*. 2015:248–52.
 36. Saini A, Kumar M, Bhatt S, Saini V. Cancer Causes and Treatments. *Int J Pharm Sci Res*. 2020;11:3121–34.
 37. Riset Kesehatan Dasar (Riskesdas). Laporan Riskesdas 2018 Nasional. Lembaga Penerbit Balitbangkes. 2018. p. hal 156.
 38. Haeno H, Iwasa Y, Michor F. The Evolution of Two Mutations During Clonal Expansion. *Genetics*. 2007;177(4):2209–21.
 39. Liu X ling, Ding J, Meng L hua. Oncogene-induced Senescence: a Double Edged Sword in Cancer. *Acta Pharmacol Sin*. 2018;39(10):1553–8.
 40. Rahmawati S. Peran Onkogen dan Tumor Suppressor Gene pada Karsinogenesis The Role of Oncogene and Tumor Suppressor Gene in Carcinogenesis. *JK Unila*. 2021;5(1):61–8.
 41. Asif HM, Sultana S, Ahmed S, Akhtar N, Tariq M. HER-2 Positive Breast Cancer. 2016;17:1609–15.
 42. Druker BJ. Translation of The Philadelphia Chromosome Into Therapy for CML. *Blood*. 2008;112(13):4808–17.
 43. Asghar U, Witkiewicz AK, Turner NC, Knudsen ES. The History and Future of Targeting Cyclin-dependent Kinases in Cancer Therapy. *Nat Rev Drug Discov*. 2015;14(2):130–46.
 44. Patterson AD, Gonzalez FJ, Perdew GH, Peters JM. Molecular Regulation of Carcinogenesis: Friend and Foe. *Toxicol Sci*. 2018;165(2):277–83.

45. Kitagawa K, Kotake Y, Kitagawa M. Ubiquitin-mediated Control of Oncogene and Tumor Suppressor Gene Products. *Cancer Sci.* 2009;100(8):1374–81.
46. Wang LH, Wu CF, Rajasekaran N, Shin YK. Loss of Tumor Suppressor Gene Function in Human Cancer: An Overview. *Cell Physiol Biochem.* 2019;51(6):2647–93.
47. Du W, Searle J. The Rb Pathway and Cancer Therapeutics. *Curr Drug Targets.* 2012;10(7):581–9.
48. Smith AL, Robin TP, Ford HL. Molecular Pathways: Targeting The TGF- β Pathway for Cancer Therapy. *Clin Cancer Res.* 2012;18(17):4514–21.
49. Savage KI, Harkin DP. BRCA1, A “Complex” Protein Involved in The Maintenance of Genomic Stability. *FEBS J.* 2015;282(4):630–46.
50. Iwamoto K, Hamada H, Okamoto M. Mechanism of Cell Cycle Disruption by Multiple p53 Pulses. *Genome Inform.* 2011;25(1):12–24.
51. Rahman N, Scott RH. Cancer Genes Associated with Phenotypes in Monoallelic and Biallelic Mutation Carriers: New Lessons from Old Players. *Hum Mol Genet.* 2007;16(R1):60–6.
52. Hanahan D. Hallmarks of Cancer: New Dimensions. *Cancer Discov.* 2022;12(1):31–46.
53. Milane LS. The Hallmarks of Cancer and Immunology. Dalam: *Cancer Immunology and Immunotherapy.* Elsevier. 2021;1:1–17.
54. Fasoulakis Z, Daskalakis G, Diakosavvas M, Papapanagiotou I, Theodora M, Bourazan A. MicroRNAs Determining Carcinogenesis by Regulating Oncogenes and Tumor Suppressor Genes During Cell Cycle. *MicroRNA.* 2019;9(2):82–92.
55. Saretzki G. Cellular Senescence in The Development and Treatment of Cancer. *Curr Pharm Des.* 2009;16(1):79–100.
56. Asiva Noor Rachmayani. *Kanker dan Karsinogenesis.* 2015. 6 p.
57. Sonawane G, Gyan S, Univeristy V, Singh S, Gyan S, Univeristy V.

Biology of Normal Cell and Cancer Cell Chapter - 1 Biology of Normal Cell and Cancer Cell. 2022.

58. Divya S. Detecting Stage of Lung Cancer Based on Tumor Size-By Using Segmentation and Feature Extraction in Medical Image.2021;2020–1.
59. Huang J, Yunyang MD, Man TS. Thoracic Oncology: Original Research Distribution, Risk Factors, and Temporal Trends for Lung Cancer Incidence and Mortality: A Global Analysis. Chest. 2022.
60. Kementerian Kesehatan R. Komite Penanggulangan Kanker Nasional. Pandu Penatlaksanaan Kanker Serviks. 2016;10–1.
61. Elsaka O, Ayman M, Adel M, Tarek M, Hamada A, Al-razik A. Etiology , Investigations , and Treatment in Cases of Non-Small Cell Lung Cancer. 2022;4(1):96–122.
62. Detterbeck FC. The eighth edition TNM stage Classification for Lung Cancer: What Does it Mean on Main Street? J Thorac Cardiovasc Surg. 2018;155(1):356–9.
63. Shi C, Wang Q, Liao X, Ge H, Huo G, Zhang L. Discovery of 6-(2-(dimethylamino)ethyl)-N-(5-fluoro-4-(4-fluoro-1-isopropyl-2-methyl-1H-benzo[d]imidazole-6-yl)pyrimidin-2-yl)-5,6,7,8-tetrahydro-1,6-naphthyridin-2-amine as a Highly Potent Cyclin-dependent Kinase 4/6 Inhibitor for Treatment of Cancer. Eur J Med Chem. 2019;178:352–64.
64. Townsend MH, Anderson MD, Weagel EG, Velazquez EJ, Weber KS, Robison RA. Non-small Cell Lung Cancer Cell Lines A549 and NCI-H460 Express Hypoxanthine Guanine Phosphoribosyltransferase on The Plasma Membrane. Onco Targets Ther. 2017;10:1921–32.
65. Chary A, Groff K, Stucki AO, Contal S, Stoffels C, Cambier S. Maximizing The Relevance and Reproducibility of A549 Cell Culture Using FBS-free Media. Toxicol Vitro. 2022;83.
66. Elmore S. Apoptosis: A Review of Programmed Cell Death. Toxicol Pathol. 2007;35(4):495–516.

67. Kresno SB. Ilmu Dasar Onkologi. Ketiga. Jakarta: Badan Penerbit FKUI; 2012.
68. Brown T. Targeting Programmed Cell Death Using Small-Molecule Compounds to Improve Potential Cancer Therapy. *Harv Bus Rev*. 2008;86(6):84–92.
69. Chowchaikong N, Nilwarangkoon S, Laphookhieo S, Tanunyutthawongse C, Watanapokasin R. P38 Inhibitor Inhibits The Apoptosis of Cowanin-treated Human Colorectal Adenocarcinoma Cells. *Int J Oncol*. 2018;52(6):2031–40.
70. Liu Y, Hu X, Han C, Wang L, Zhang X, He X. Targeting Tumor Suppressor Genes for Cancer Therapy. *BioEssays*. 2015;37(12):1277–86.
71. Nix P, Cawkwell L, Patmore H, Greenman J, Stafford N. Bcl-2 Expression Predicts Radiotherapy Failure in Laryngeal Cancer. *Br J Cancer*. 2005;92(12):2185–9.
72. Pattingre S, Levine B. Bcl-2 Inhibition of Autophagy: A New Route to Cancer? *Cancer Res*. 2006;66(6):2885–8.
73. Salauddin M. A Brief Concept of Cell Culture: Challenges, Prospects and Applications. 2022.
74. Khumairoh I, Puspitasari IM. Kultur Sel. *Farmaka*. 2016;14(2):98–110.
75. Andiana, Mashita, Yuanita RS. Kultur Sel Baby Hamster Kidney (BKH) Menggunakan Media Dulbecco's Modified Eagle Medium (DMEM). *BIOTROPIC J Trop Biol*. 2017;1(1):1–8.
76. Scott C. Handbook: Cell Culture Basics. *Thermo Fish Sci*. 2020;9:1–132.
77. Cell Culture Basics Handbook.
78. Guidance T, Analysis D, Moore BC. Introduction to Western Blotting Western Blotting. *MorphoSys UK Ltd*. 2009;
79. Ghosh R, Gilda JE, Gomes A V. Accuracy of Western Blots. *Expert Rev Proteomics*. 2014;11(5):549–60.
80. Micha R. Protein purification and Analysis: Next Generation Western

- Blotting Techniques. *Physiol Behav.* 2017;176(1):100–106.
81. Hafizh MA. Analisis Kematian Sel Kanker Payudara MCF-7/HER2 Secara Apoptosis Setelah Diinduksi Senyawa Rubrasanton Dengan Metode Double Staining. *Nucl Phys.* 2023;13(1):104–16.
 82. Scientific T. RIPA Lysis and Extraction Buffer. *Thermo Fish Sci.* 2020;(2161782):1–3.
 83. Scientific TF. Qubit TM 4 Fluorometer User Guide Qubit. *Invitrogen.* 2018;1–69.
 84. Invitrogen LT. Invitrogen Mini Gel Tank. *Life Technol.* 2014;1(1):1–30.
 85. TFS. iBlot 2 Dry Blotting System. *ThermoFisher.* 2015;3–4.
 86. Invitrogen. 1-Step Ultra TMB-Blotting Solution. *Thermo Fish Sci Life Technol.* 2016;0747(37574):1–3.
 87. Garcia-De-Alba C. Repurposing A549 adenocarcinoma cells: New options for drug discovery. *Am J Respir Cell Mol Biol.* 2021;64(4):405–6.
 88. Cooper JR, Abdullatif MB, Burnett EC, Kempell KE, Conforti F, Tolley H. Long Term Culture of The A549 Cancer Cell Line Promotes Multilamellar Body Formation and Differentiation Towards an Alveolar Type II Pneumocyte Phenotype. *PLoS One.* 2016;11(10):1–20.
 89. Aliah HA, Carman O. Efektivitas Promoter β -Aktin dalam Mengarahkan Ekspresi Gen Target pada Transgenesis Ikan Mas. *J Akuakultur Indones.* 2011;10(1):16–23.
 90. Collins JM, Wang D. Cytochrome P450 3A4 (CYP3A4) Protein Quantification Using Capillary Western Blot Technology And Total Protein Normalization. *J Pharmacol Toxicol Methods [Internet].* 2021;112.
 91. Scientific T. Overview of Protein Electrophoresis [Internet]. Laman: <https://www.thermofisher.com/id/en/home/life-science/protein-biology/protein-biology-learning-center/protein-biology-resource-library/pierce-protein-methods/overview-electrophoresis.html>
 92. Scientific T. Protein Ladders and Standards for SDS-PAGE, Western Blots,

and Isoelectric Focusing (IEF) [Internet]. 2015. Laman: <https://www.thermofisher.com/id/en/home/life-science/protein-biology/protein-gel-electrophoresis/protein-standards-ladders.html>

93. Scientific T. Protein transfer technical handbook Comprehensive protein transfer solutions designed to drive your success. Invitrogen [Internet]. Laman: <https://www.thermofisher.com/content/dam/LifeTech/global/Forms/PDF/protein-transfer-technical-handbook.pdf>
94. Scientific T. Bcl-2 Monoclonal Antibody (Bcl-2-100) [Internet]. Laman: <https://www.thermofisher.com/antibody/product/Bcl-2-Antibody-clone-Bcl-2-100-Monoclonal/13-8800>
95. Scientific T. Chemiluminescence Western Blotting Technical Guide And Protocols. Thermo Fish Sci. 2018;1–12.
96. Meiyanto E, Sekti DA, Mubarok MF, Armandani I, Junedy S. Awar–Awar (Ficus Septica Burm. F.) Leaves Ethanolic Extract Induced Apoptosis of Mcf-7 Cells By Downregulation Of Bcl-2. Tradit Med J. 2015;15(3):100–4.
97. Matsumoto K, Akao Y, Yi H, Ohguchi K, Ito T, Tanaka T. Preferential target is mitochondria in α -mangostin-induced apoptosis in human leukemia HL60 cells. Bioorganic Med Chem. 2004;12(22):5799–806.

