

DAFTAR PUSTAKA

- Adila, A., & Mustika, S. E. 2023. Hubungan Usia dan Jenis Kelamin Terhadap Kejadian Kanker Kolorektal. *Jurnal Kedokteran STM (Sains Dan Teknologi Medik)*, 6(1): 53-59. <https://doi.org/10.30743/stm.v6i1.349>
- Aditama, A. P., Agil, M., Laswati, H. 2016. An In Vitro Antiosteoporotic Activity of 96% Ethanol Extract of *Abelmoschus manihot* L. Medik Leaves Using Mc3t3-E1 Preosteoblast Cells. *Traditional Medicine Journal*, 21(3): 116-123.
- Adriani, N. M., Patellongi, I., & Sjattar, E. L. 2021. Evaluasi Tanda dan Gejala Pasien Kanker setelah menjalani Kemoterapi. *Jurnal Ilmiah Perawat Manado (Juiperdo)*, 8(2): 78-92. <https://doi.org/10.47718/jpd.v8i02.904>.
- Agustin, T. 2020. Potensi Metabolit Aktif Dalam Sayuran Cruciferous ntuk Menghambat Pertumbuhan Sel Kanker. *Jurnal Penelitian Perawat Profesional*, 2(4): 459-473.
- Agustina, P., Indrayudha, P. & Haryoto. 2022. Uji Aktivitas Sitotoksik Dan Antiproliferasi Isolat Herba Tespong (*Oenanthe javaniva* Blume Dc) Terhadap Sel MCF-7. *Medical Sains: Jurnal Ilmiah Kefarmasian*, 7(4): 831-841.
- Ahmed, N., Erlista, G. P., Raharjo, T. J., Swasono, R. T., & Raharjo, S. 2023. Anticancer Activity of *Venom* Protein Hydrolysis Fraction of Equatorial Spitting Cobra (*Naja sumatrana*). *Indonesia Journal Chemistry*, 23(2): 510-522.
- Alkharashi N. A. 2023. Efficacy of resveratrol against breast cancer and hepatocellular carcinoma cell lines. *Saudi medical journal*, 44(3): 246-252. <https://doi.org/10.15537/smj.2023.44.3.20220768>
- Alshehade, S. A., Almoustafa, H. A., Alshawsh, M. A. & Chik, Z. 2024. Flow cytometry-based quantitative analysis of cellular protein expression in

apoptosis subpopulations: A protocol. *Heliyon*, 10(13): 1-11.
<https://doi.org/10.1016/j.heliyon.2024.e33665>

Amir, H., Murcitra, B. G. 2017. Uji Microtetrazolium (MTT) Ekstrak Metanol Daun *Phaleria macrocarpa* (Scheff.) Boerl terhadap Sel Kanker Payudara MCF-7. *Alotrop*, 1(1): 27-32.

Andela, L. P., Sukohar, A. & Wahyuni, A. 2024. Faktor-Faktor yang Mempengaruhi Residif Kanker Payudara. *Termometer: Jurnal Ilmiah Ilmu Kesehatan dan Kedokteran*, 4(2): 266-276.
<https://doi.org/10.55606/termometer.v2i4.4366>

Aswad, H. & Irma, A. 2022. Uji Sitotoksik Ekstrak Kembang Kol (*Brassica Oleracea* Var. Botrytis) terhadap Viabilitas Kanker Kolon WiDr. *Syntax Literate: Jurnal Ilmiah Indonesia*, 7(12): 19556-19568.
<https://doi.org/10.36418/syntax-literate.v7i12.11330>

Aswan, N. R. & Hanriko, R. 2023. Faktor Risiko Kanker Kolorektal. *Medula*, 13(1): 1-6.

Brown, J. S., Amend, S. R., Austin, R. H., Gatenby, R. A., Hammarlund, E. U., & Pienta, K. J. 2023. Updating the Definition of Cancer. *Molecular cancer research: MCR*, 21(11): 1142-1147. <https://doi.org/10.1158/1541-7786.MCR-23-0411>

Budiati, T. & Afianda, G. D. 2025. Uji Efek Sitotoksitas Pada Daun Tanaman Herbal terhadap Sel Vero. *JOFE : Journal of Food Engineering*, 4(1): 1-10.

Calderon, L.A., Sobrinho, J.C., Zaqueo, K.D., de Moura, A.A., Grabner, A.N., Mazzi, M.V., Marcussi, S., Nomizo, A., Fernandes, C.F., Zuliani, J.P., Carvalho B. M. A., da Silva, S. L., Stabeli, R. G. & Soares A. M. 2014. Antitumoral activity of snake venom proteins: New trends in cancer therapy. *BioMed Research International*, 2014(1): 203639. <https://doi.org/10.1155/2014/203639>

Chong, H. P., Tan, K. Y., & Tan, C. H. 2020. Cytotoxicity of Snake Venoms and Cytotoxins From Two Southeast Asian Cobras (*Naja sumatrana*, *Naja*

kaouthia): Exploration of Anticancer Potential, Selectivity, and Cell Death Mechanism. *Frontiers in molecular biosciences*, 7, 583587.
<https://doi.org/10.3389/fmolb.2020.583587>

Dafa, M. H., Yudha, D. S., & Sulistio, A. D. (2024). Preliminary Study on Morphology, Meristics, and Morphometric Variations of Javan Spitting Cobra *Naja sputatrix* Boie, 1827 and Sumatran Spitting Cobra *Naja sumatrana* Müller, 1890. *Genbinesia Journal of Biology*, 3(1): 31-40.
<https://doi.org/10.55655/genbinesia.v3i1.61>

Djuwarno, E. N., Marhaba, Z., Abdullah, R., Baharuddin, R., Usuli, T. C., Ismail, N. H., & Tonde, N. A. 2023. Gambaran Pengobatan Pasca Kemoterapi Pasien Kanker Payudara Pada Rumah Sakit di Provinsi Gorontalo. *Jurnal Mandala Pharmacon Indonesia*, 9(2): 374-382.
<https://doi.org/10.35311/jmpi.v9i2.32>

Ebrahim K, Vatanpour H, Zare A, Shirazi FH, & Nakhjavani M. 2016. Anticancer Activity a of Caspian Cobra (*Naja naja oxiana*) snake Venom in Human Cancer Cell Lines Via Induction of Apoptosis. *Iran journal pharmaceutical research*, 15: 101-112.

Erlista, G. P., Ahmed, N., Swasono, R. T., Raharjo, S., & Raharjo, T. J. (2023). Proteome of monocled cobra (*Naja kaouthia*) venom and potent anti breast cancer peptide from trypsin hydrolyzate of the venom protein. *Saudi pharmaceutical journal : SPJ : the official publication of the Saudi Pharmaceutical Society*, 31(6): 1115–1124.
<https://doi.org/10.1016/j.jsps.2023.04.001>

Fakhri, A., Omranipour, R., Fakhri, S., Mirshamsi, M., Zangeneh, F., Vatanpour, H., & Pourahmad, J. 2017. Naja Naja Oxiana Venom Fraction Selectively Induces ROS-Mediated Apoptosis in Human Colorectal Tumor Cells by Directly Targeting Mitochondria. *Asian Pacific journal of cancer prevention*, 18(8): 2201–2208.
<https://doi.org/10.22034/APJCP.2017.18.8.2201>

- Frihling, B.E.F., Boleti, A.P.A., de Oliveira, C.F.R., Sanches, S.C., Cardoso, P.H.O., Verbisck, N., Macedo, M.L.R., Santa Rita, P.H., Carvalho, C.M.E., & Migliolo, L. 2022. Purification, Characterization and Evaluation of the Antitumoral Activity of a Phospholipase A₂ from the Snake *Bothrops moojeni*. *Pharmaceuticals*, 15(6): 724. <https://doi.org/10.3390/ph15060724>
- Fung, S.Y., Lee, M.L. & Tan, N.H. 2018. Proteomic investigation of the molecular mechanism of king cobra venom L-amino acid oxidase induced apoptosis of human breast cancer (MCF-7) cell line. *Indian J. Exp. Biol*, 56: 101–111.
- Ghasemi, M., Turnbull, T., Sebastian, S. & Kempson, I. 2021. The MTT Assay: Utility, Limitations, Pitfalls, and Interpretation in Bulk and Single-Cell Analysis. *International Journal of Molecular Sciences*, 22: 12827. <https://doi.org/10.3390/ijms222312827>
- Gruber, S., & Nickel, A. 2023. Toxic or not toxic? The specifications of the standard ISO 10993-5 are not explicit enough to yield comparable results in the cytotoxicity assessment of an identical medical device. *Frontiers in medical technology*, 5: 1195529. <https://doi.org/10.3389/fmedt.2023.1195529>
- Handayani, P., Jasrin, T. A. & Widyaputra, S. 2016. Limfangiogenesis sebagai jalur alternatif metastasis kanker. *Jurnal Kedokteran Gigi Universitas Padjajaran*, 28(2): 126-131. <https://doi.org/10.24198/jkg.v28i2.18707>
- Hero, A. K. 2021. Faktor Risiko Kanker Payudara. *Jurnal Medika Hutama*, 3(1): 1533-1537.
- Hidayati, D. N., Parusiza, I. M. & Fauzizah, N. 2022. Cytotoxic Activity of Eugenia polyantha Wight Leaves Extract, Purified Extract and Ethyl Acetate Fraction in T47D and Determination of Flavonoid Levels. *Indonesian Journal of Chemical Science*, 11(1): 16-25.
- Hiu J. J. & Yap M. K. K. 2020. Cytotoxicity of snake venom enzymatic toxins: phospholipase A₂ and l-amino acid oxidase. *Biochem Soc Trans*, 48(2): 719-731. <https://doi.org/10.1042/bst20200110>

- Homady, M. H., Juma, A. S. M., Ubied, M. H., Salih, T. S. & Al-Jubori, M. M. 2021. Age and Gender in Relation to Colorectal Cancer in Najef Province: A Histopathological Study. *Acta Scientific Pharmaceutical Sciences*, 5(3): 72-81.
- Irham, M., Syahputra, M., Wahyuningsih & Permatasi, D. 2024. Keanekaragaman dan Sebaran Jenis Ular pada Berbagai Tipe Habitat di Blok Pemanfaatan Taman Wisata Alam Kerandangan. *AGROTEKSOS*, 34(3): 1080-1093.
- ITIS (Integrated Taxonomic Information system), *Naja sputatrix* F. Boie, 1827 Retrieved [April, 9, 2025]. Available at : https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=700641#null
- Jan R. & Chaudhry G. 2019. Understanding Apoptosis and Apoptotic Pathways Targeted Cancer Therapeutics. *Adv Pharm Bull*, 9(2): 205-218. <https://doi.org/10.15171/apb.2019.024>.
- Karakaş, D., Ari, F., & Ulukaya, E. 2017. The MTT viability assay yields strikingly false-positive viabilities although the cells are killed by some plant extracts. *Turkish journal of biology = Turk biyoloji dergisi*, 41(6): 919–925. <https://doi.org/10.3906/biy-1703-104>
- Karimaa, A. 2018. Uji in Vitro Senyawa Antikanker SA 2014 terhadap Aktivitas Fagositosis Sel Makrofag (Mus Musculus). *Jurnal Sains dan Semi ITS*, 7(2): 27-33. <https://doi.org/10.12962/j23373520.v7i2.30846>
- Kciuk, M., Gielecińska, A., Mujwar, S., Kołat, D., Kałuzińska-Kołat, Ż., Celik, I., & Kontek, R. 2023. Doxorubicin—An Agent with Multiple Mechanisms of Anticancer Activity, *Cells*, 12(4): 659. <https://doi.org/10.3390/cells12040659>
- Kerkkamp, H., Bagowski, C., Kool, J., van Soolingen, B., Vonk, F.J. & Vlecken, D. 2018. Whole snake venoms: Cytotoxic, anti-metastatic and antiangiogenic properties. *Toxicon*, 150: 39–49.

- Kiesslich, S., & Kamen, A. A. 2020. Vero cell upstream bioprocess development for the production of viral vectors and vaccines. *Biotechnology advances*, 44, 107608. <https://doi.org/10.1016/j.biotechadv.2020.107608>
- Kurniawan, N., Putri, M. M., Kadafi, A. M., Chrestella, D. J., Fauzi, M. A., & Kurnianto, A. S. 2017. Phylogenetics and Biogeography of Cobra (Squamata: Naja) in Java, Sumatra, and Other Asian Region. *The Journal of Experimental Life Science*, 7(2): 94-101.
- Li, L., Huang, J. & Lin, Y. 2018. Snake Venoms in Cancer Therapy: Past, Present and Future. *Toxins*, 10(9): 1-8. <https://doi.org/10.3390/toxins10090346>
- Li, W., Zhou, J. & Xu, Yujin. 2015. Study of the in vitro cytotoxicity testing of medical devices (Review). *BIOMEDICAL REPORTS*, 3(5): 617-620. <https://doi.org/10.3892/br.2015.481>
- Liebl, M. C. & Hofmann, T. G. 2021. The Role of p53 Signaling in Colorectal Cancer. *Cancers*, 13(9): 1-29. <https://doi.org/10.3390/cancers13092125>
- Lubis, I. A. & Bestari, R. 2023. Evaluasi Aktivitas Sitotoksik Dan Indeks Selektivitas Daun Afrika (*Vernonia amygdalina*) Terhadap Model Sel Kanker Kolon Secara In Vitro. *Journal of Biology Education, Science & Technology*, 6(2): 675-681. <https://doi.org/10.30743/best.v6i2.8125>
- Majid, S. R. & Ariyanti, F. Determinan Kejadian Kanker Kolorektal Studi Kasus Kontrol pada Pasien di Rumah Sakit Kanker Dharmais. *Jurnal Ilmu Kesehatan Masyarakat*, 9 (4): 192-253. <https://doi.org/10.33221/jikm.v9i04.677>
- Moga, M. A., Dimienescu, O. G., Arvătescu, C. A., Ifteni, P., & Pleș, L. 2018. Anticancer Activity of Toxins from Bee and Snake Venom—An Overview on Ovarian Cancer. *Molecules*, 23(3): 692. <https://doi.org/10.3390/molecules23030692>
- Muna, L. N. & Maulidina, F. 2022. Penghambatan Proliferasi Sel Kanker Payudara T47D oleh Ekstrak Air Daun Kelor (*Moringa oleifera*) dan Doxorubicin

dengan Metode MTT Assay. *Jurnal Farmasi Sains dan Terapan*. 9(2): 99-104. <https://doi.org/10.33508/jfst.v9i2.4361>

Mutiah, R., Suryadinata, A. & Nurani, P., S. Uji Sitotoksik Kombinasi Cisplatin Dengan Ekstrak Etanol Benalu Alpukat (*Dendrophthoe pentandra (L) Miq.*) Pada Sel Hela. *Majalah Kesehatan*, 5(3): 133-143.

Nikodijević, D. D., Jovankić, J. V., Cvetković, D. M., Anđelković, M. Z., Nikezić, A. G., Milutinović, M. G. 2021. L-amino acid oxidase from snake venom: Biotransformation and induction of apoptosis in human colon cancer cells. *European Journal of Pharmacology*, 910.

Osada, N., Kohara, A., Yamaji, T., Hirayama, N., Kasai, F., Sekizuka, T., Kuroda, M. & Hanada, K. 2014. The Genome Landscape of the African Green Monkey Kidney-Derived Vero Cell Line. *DNA Research*, 21(6): 673–683. <https://doi.org/10.1093/dnares/dsu029>

Pantur V. H., Sukarno A. & Zairina A. 2024. Keanekaragaman Spesies Ular Di Resort Rowo Bendo Taman Nasional Alas Purwo. *Journal of Scientech Research and Development (JSRD)*, 6(1): 56-64. <https://doi.org/10.21776/ub.majalahkesehatan.005.03.2>.

Papa, S., Ortolani, C., Fernández, P., & O'Connor, J.-E. 2023. Flow Cytometry and Its Applications to Molecular Biology and Diagnosis 2.0. *International Journal of Molecular Sciences*, 24(22): 16215. <https://doi.org/10.3390/ijms242216215>

Pratama, K. P. & Adrianto A. A. 2019. Faktor-Faktor Yang Mempengaruhi Kejadian Kanker Kolorektal Stadium III di RSUP Dr Kariadi Semarang. *Jurnal Kedokteran Diponegoro*, 8(2): 764–784.

Prihantono, Rusli, R., Christeven, R. & Faruk, M. 2023. Cancer Incidence and Mortality in a Tertiary Hospital in Indonesia: An 18-Year Data Review. *Ethiop Journal Health Science*, 33(3): 515. <http://dx.doi.org/10.4314/ejhs.v33i3.15>

- Puspitaningtyas H., Hutajulu S. H., Fachiroh J., Anggorowati N., Sanjaya G. Y., Lazuardi L. & Sripan P. 2024. Diverging likelihood of colon and rectal cancer in Yogyakarta, Indonesia: A cross sectional study. *PLoS ONE*, 19(3). <https://doi.org/10.1371/journal.pone.0301191>
- Putri, A. K., Dimarti, S. C., Yuniati, R. & Susilaningsih, N. 2020. Cytotoxicity and Antiproliferation of Phycocyanin from *Spirulina platensis* Extract on WiDr Colon Cancer Cell Line. *Biosaintifika: Journal of Biology & Biology Education*, 12(1): 42-49.
- Roshandel, G., Kebria, F. G. & Malekzadeh, R. 2024. Colorectal Cancer: Epidemiology, Risk Factors, and Prevention. *Cancers*, 16(8): 1-22. <https://doi.org/10.3390/cancers16081530>
- Sadat, S. N., Bagheri, K. P., Maghsoudi, H., Shahbazzadeh, D. 2023. Oxineur, a novel peptide from Caspian cobra *Naja naja oxiana* against HT-29 colon cancer. *BBA-General Subjects*, 1867. <https://doi.org/10.1016/j.bbagen.2022.130285>
- Sakuma, C., Sekizuka, T., Kuroda, M., Kasai, F. Saito, K., Ikeda, M., Yamaji T., Osada, N., & Hanada, K. 2018. Integrasi retrovirus simian endogen baru dalam sel Vero: implikasi untuk pengendalian mutu substrat sel vaksin manusia. *Sci Rep*, 8: 644. <https://doi.org/10.1038/s41598-017-18934-2>
- Sampat, G. H., Hiremath, K., Dodakallanavar, J., Patil, V. S., Harish, D. R., Biradar, P., Mahadevamurthy, R. K., Barvaliya, M. & Roy, S. 2023. Unraveling snake venom phospholipase A₂: an overview of its structure, pharmacology, and inhibitors. *Pharmacol Rep*, 75(6): 1454-1473. <https://doi.org/10.1007/s43440-023-00543-8>
- Sanz, A.B., Sanchez-Niño, M.D., Ramos, A.M. & Ortiz, A. 2023. Regulated cell death pathways in kidney disease. *Nature Reviews Nephrology*, 19: 281–299. <https://doi.org/10.1038/s41581-023-00694-0>
- Sayuti, M., & Nouva, N. (2019). Kanker Kolorektal. *AVERROUS: Jurnal Kedokteran Dan Kesehatan Malikussaleh*, 5(2): 76–88.

- Simangunsong, D. K., Habib, H. & Simbolon E. 2024. Pemberian SABU (Serum Anti-Bisa Ular) untuk Kasus Gigitan Ular Awitan Lama dengan Komplikasi Disseminated Intravascular Coagulation (DIC). *Cermin Dunia Kedokteran*, 51(3): 149-155.
- Srodawa, K., Cerda, P. A., Rabosky, A. R. D. & Ridell, J. M. C. 2023. Evolution of Three-Finger Toxin Genes in Neotropical Colubrine Snakes (Colubridae). *Toxins*, 15(9): 1-16. <https://doi.org/10.3390/toxins15090523>
- Subhamay P., Kumari L.& Santamay P. 2016. Structural Understanding of Cytotoxin 1 of *Naja sputatrix*: A Potential Anticancer Agent. *Journal of Drug Delivery and Therapeutics*, 6 (3): 59-63. <http://dx.doi.org/10.22270/jddt.v6i3.1212>
- Sukohar, A. & Catur M. M. S. P. 2016. Air Alkali Terionisasi Pencegahan Termutakhir Timbulnya Kanker. *Medical Journal of Lampung Unniversity*, 5(2): 74-80.
- Sukumaran A, K. Sweety V, Vikas B, & Joseph B. 2023. Cytotoxicity and Cell Viability Assessment of Biomaterials. Cytotoxicity - Understanding Cellular Damage and Response. *IntechOpen*. <http://dx.doi.org/10.5772/intechopen.111822>.
- Tan, N. H., Wong, K. Y. & Tan, C. H. 2017. Venomics of *Naja sputatrix*, the Javan spitting cobra: A short neurotoxin-driven venom needing improved antivenom neutralization. *Journal of Proteomics*, 157: 18-32. <https://doi.org/10.1016/j.jprot.2017.01.018>
- Utami, D. T., Nugraheni, N., Jenie, R. I., & Meiyanto, E. 2020. Co-treatment of Brazilein Enhances Cytotoxicity of Doxorubicin on WiDr Colorectal Cancer Cells Through Cell Cycle Arrest. *Indonesian Biomedical Journal*, 12(4): 376–383. <https://doi.org/10.18585/inabj.v12i4.1293>
- Wei G, Wang Y, Yang G, Wang Y, & Ju R. 2021. Recent progress in nanomedicine for enhanced cancer chemotherapy. *Theranostics*, 11(13): 6370-6392. <https://doi.org/10.7150/thno.57828>

- Wulandari S. M., Winarti E. & Sutandi A. 2022. Hubungan Kepatuhan Menjalani Kemoterapi Dengan Kualitas Hidup Pasien Kanker Kolon di RSUD Tarakan Jakarta. *Binawan Student Journal*, 4(2): 1-6. <https://doi.org/10.54771/bsj.v4i2.510>
- Youssef, A. M. M., Maaty, D. A. M., Al-Saraireh, Y. M. 2023. Phytochemistry and Anticancer Effects of Mangrove (*Rhizophora mucronata* Lam.) Leaves and Stems Extract against Different Cancer Cell Lines. *Pharmaceuticals*, 16 (1): 1-16. <https://doi.org/10.3390/ph16010004>
- Yusnita. 2021. Ekspresi Cox-2 Sel Kanker Kolon WiDr Oleh Fraksi n-Heksana Bunga Pepaya Jantan (*Carica papaya* L.). *Jurnal JIFS : Jurnal Ilmiah Farmasi Simplisia*, 1(2): 98-103.