

## DAFTAR PUSTAKA

- Adityanugraha, M.T., Fatimah, K.S., Larasati, D. & Kurniantoro, F.E., 2022. Uji Aktivitas Antibakteri Ekstrak Etanol Daun Kenikir (*Cosmos caudatus* Kunth.) Terhadap *Staphylococcus aureus*. *Jurnal Fitofarmaka Indonesia*, 9(2), pp.14–18.
- Ads, E.N., Abouzied, A.S. & Alshammari, M.K., 2021. Evaluation of Cytotoxic Effects of Methanolic Extract of *Pergularia tomentosa* L Growing Wild in KSA. *Asian Pacific Journal of Cancer Prevention*, 22(1), pp.67–72.
- Afzali, M., Ghaeli, P., Khanavi, M., Parsa, M., Montazeri, H., Ghahremani, M.H. & Ostad, S.N., 2015. Non-Addictive Opium Alkaloids Selectively Induce Apoptosis in Cancer Cells Compared to Normal Cells. *DARU Journal of Pharmaceutical Sciences*, 23(16), pp.1–8.
- Agger, S., Gallego, F.L. & Dannert, C.S., 2009. Diversity of Sesquiterpene Synthases in The Basidiomycete *Coprinus cinereus*. *Molecular Biology*, 72(5), pp.1–22.
- Ahmed, E.H., Abadi, R.S. & Mohammed, A.M., 2018. Phytochemical screening, chemical composition and antioxidant activity of seeds essential oil of *Coriandrum sativum* L. from the Sudan. *International Journal of Herbal Medicine*, 6(1), pp.1–4.
- Ansari, L., Shieh-zadeh, F., Taherzadeh, Z., Nikoofal Sahlabadi, S., Momtazi Borojeni, A.A., Sahebkar, A. & Eslami, S., 2017. The Most Prevalent Side Effects of Pegylated Liposomal Doxorubicin Monotherapy in Women with Metastatic Breast Cancer: A Systematic Review of Clinical Trials. *Cancer Gene Therapy*, 24(5), pp.189–193.
- Arora, S. & Tandon, S., 2014. *Achyranthes aspera* Root Extracts Induce Human Colon Cancer Cell (COLO-205) Death by Triggering The Mitochondrial Apoptosis Pathway and S phase Cell Cycle Arrest. *The Scientific World Journal*, 1(10), pp.1–15.
- Azizi, E., Fouladdel, S., Komeili Movahhed, T., Modaresi, F., Barzegar, E., Ghahremani, M.H., Ostad, S.N. & Atashpour, S., 2022. Quercetin Effects on Cell Cycle Arrest and Apoptosis and Doxorubicin Activity in T47D Cancer Stem Cells. *Asian Pacific Journal of Cancer Prevention*, 23(12), pp.4145–4154.
- Bahreini, A., Li, Z., Wang, P., Levine, K.M., Tasmemir, N., Cao, L., Weir, H.M., Puhalla, S.L., Davidson, N.E., Stern, A.M., Chu, D., Park, B.H., Lee, A. V. & Oesterreich, S., 2017. Mutation Site and Context Dependent Effects of ESR1 Mutation in Genome Edited Breast Cancer Cell Models. *Breast Cancer Research*, 19(1), pp.1–10.
- Bahuguna, A., Khan, I., Bajpai, V.K. & Kang, S.C., 2017. MTT Assay to Evaluate The Cytotoxic Potential of a Drug. *Bangladesh Journal of Pharmacology*, 12(2), pp.115–118.
- Barzegar, E., Fouladdel, S., Komeili Movahhed, T., Atashpour, S., Ghahremani, M.H., Ostad, S.N. & Azizi, E., 2015. Effects of Berberine on Proliferation, Cell Cycle Distribution and Apoptosis of Human Breast Cancer T47D and MCF7 Cell Lines. *Iranian Journal of Basic Medical Sciences*, 18(4), pp.334–342.
- Cheng, G.J., Leung, E.Y. & Singleton, D.C., 2022. In Vitro Breast Cancer Models for Studying Mechanisms of Resistance to Endocrine Therapy. *Exploration of*

*Targeted Anti-tumor Therapy*, 3(3), pp.297–320.

- Dewatisari, W.F., 2020. Perbandingan Pelarut Kloroform dan Etanol terhadap Rendemen Ekstrak Daun Lidah Mertua (*Sansevieria trifasciata* Prain.) Menggunakan Metode Maserasi. In: *Prosiding Seminar Nasional Biologi di Era Pandemi COVID-19*. Makassar: Universitas Islam Negeri Alauddin Makassar, pp.127–132.
- Dewi, S.R., Ulya, N. & Argo, B.D., 2018. Kandungan Flavonoid dan Aktivitas Antioksidan Ekstrak *Pleurotus ostreatus*. *Jurnal Rona Teknik Pertanian*, 11(1), pp.1–11.
- Ekowati, N., Mumpuni, A. & Muljowati, J.S., 2017. Effectiveness of *Pleurotus ostreatus* Extract Through Cytotoxic Test and Apoptosis Mechanism of Cervical Cancer Cells. *Biosaintifika: Journal of Biology & Biology Education*, 9(1), pp.148–145.
- Ekowati, N., Mumpuni, A., Ratnaningtyas, N.I. & Maharning, A.R., 2020. Compounds Detection and Inhibition Activity of Chloroform and Ethyl Acetate Extracts of *Schizophyllum commune* on Some Cancer Cell Types. *Biodiversitas*, 21(12), pp.5865–5871.
- El-Masry, O.S., Brown, B.L. & Dobson, P.R.M., 2019. AMPK Activation of Apoptotic Markers in Human Breast Cancer Cell Lines with Different P53 Backgrounds: MCF-7, MDA-MB-231 and T47D Cells. *Asian Pacific Journal of Cancer Prevention*, 20(12), pp.3763–3770.
- Evita, E., Ratnaningtyas, N.I. & Ryandini, D., 2020. Aktivitas Antibakteri Ekstrak Tubuh Buah *Coprinus comatus* Terhadap *Escherichia coli* dan *Staphylococcus aureus*. *BioEksakta: Jurnal Ilmiah Biologi Unsoed*, 2(1), pp.123–130.
- Ferla, B. La, Airoldi, C., Zona, C., Orsato, A., Cardona, F., Merlo, S., Sironi, E., Orazio, G.D. & Nicotra, F., 2011. Natural Glycoconjugates with Antitumor Activity. *Natural Product Reports*, 28(3), pp.630–648.
- Ferlay, J., Ervik, M., Lam, F., Colombet, M., Mery, L., Piñeros, M., Znaor, A., Soerjomataram, I. & Bray, F., 2020. *Global Cancer Observatory: Cancer Today*. Lyon, France: International Agency for Research on Cancer.
- Fratiwi, N., Saranani, S., Agastia, G. & Isrul, M., 2022. Aktivitas Antiinflamasi Ekstrak Etanol Daun Kirinyuh (*Chromolaena odorata* L.) dan Pengaruhnya Terhadap Kadar Interleukin 6 (IL-6) Pada Tikus Jantan Galur Wistar. *Jurnal Pharmacia Mandala Waluya*, 1(2), pp.54–67.
- Gharagozloo, M., Kalantari, H., Rezaei, A., Maracy, M.R., Salehi, M., Bahador, A., Hassennejad, N., Narimani, M., Sanei, M.H., Bayat, B. & Ghazanfari, H., 2020. Cytotoxic, Anti-proliferative and Apoptotic Effects of Noscapine on Human Estrogen Receptor Positive (MCF-7) and Negative (MDA-MB-231) Breast Cancer Cell Lines. *Brastilava Medical Journal*, 121(1), pp.43–50.
- 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(23), pp.1–30.
- Gritter, R.J., Bobbitt, J.M. & Schwarting, A.E., 1991. *Pengantar Kromatografi*.

Bandung: Institut Teknologi Bandung.

- Guo, H.B., Zhang, Z.F., Wang, J.Q., Wang, S.Y., Yang, J.K., Xing, X.Y., Qi, X.J. & Yu, X.D., 2022. Transcriptome Analysis of Genes Associated with Autolysis of *Coprinus comatus*. *Scientific Reports*, 12(1), pp.1–13.
- Hanani, E., 2015. *Analisis Fitokimia*. Jakarta: Penerbit Buku Kedokteran EGC.
- Harborne, J.B., 1987. *Metode Fitokimia: Penuntun Cara Modern Menganalisis Tumbuhan*. Bandung: Institut Teknologi Bandung Press.
- Harborne, J.B., 2004. *Metode Fitokimia Penuntun Cara Modern Menganalisis Tumbuhan. Ed II*. Bandung: Institut Teknologi Bandung Press.
- Harris, R., Graham, J. & Rickwood, D., 2006. *Cell Biology Protocols*. West Sussex, England: John Wiley and Sons Ltd.
- Hasnaeni, Wisdawati & Usman, S., 2019. Pengaruh Metode Ekstraksi Terhadap Rendemen dan Kadar Fenolik Ekstrak Tanaman Kayu Beta-Beta (*Lunasia amara* Blanco). *Jurnal Farmasi Galenika*, 5(2), pp.175–182.
- Henidi, H.A., Al-Abbasi, F.A., El-Moselhy, M.A., El-Bassossy, H.M. & Al-Abd, A.M., 2020. Despite Blocking Doxorubicin-Induced Vascular Damage, Quercetin Ameliorates Its Antibreast Cancer Activity. *Oxidative Medicine and Cellular Longevity*, 1(3), pp.1–14.
- Hikam, A.R., Ekowati, N. & Hernayanti, H., 2019. The Cytotoxic and Apoptosis Effects of Chloroform Extracts of *Auricularia auricula* on Cervical Cancer Cells. *Biosaintifika: Journal of Biology and Biology Education*, 11(1), pp.32–38.
- Huffman, D.M., Tiffany, L.H., Knaphus, G. & Healy, R.A., 2008. *Mushrooms and Other Fungi of The Midcontinental United States*. China: The University of Iowa Press.
- Ibrahim, A.A., Sandhika, W. & Budipramana, V.S., 2020. Uji Efektifitas Ekstrak Etanol Daun *Annona muricata* Terhadap Sel Kanker Payudara MCF-7. *Jurnal Manajemen Kesehatan Yasayan RS. Dr. Soetomo*, 6(1), pp.64–72.
- Jafarian, A., Zolfaghari, B. & Mirdamadi, M., 2013. The Effects of Chloroform, Ethyl Acetate and Methanolic Extracts of *Brassica rapa* L. On Cell-Mediated Immune Response in Mice. *Research in Pharmaceutical Sciences*, 8(3), pp.159–165.
- Khorsandi, L., Orazizadeh, M., Niazvand, F., Abbaspour, M., Mansouri, E. & Khodadadi, A., 2017. Quercetin Induces Apoptosis and Necroptosis in MCF-7 Breast Cancer Cells. *Brastilava Medical Journal*, 118(2), pp.123–128.
- Kumoro, A.C., 2015. *Teknologi Ekstraksi Senyawa Bahan Aktif dari Tanaman Obat*. Yogyakarta: Plantaxia.
- Lakoro, J.E., Runtuwene, M.R.J. & Yamlean, P.V.Y., 2020. Uji Aktivitas Antioksidan dan Penentuan Total Kandungan Fenolik Ekstrak Etanol Daun Nanamuha (*Bridelia monoica* Merr). *Pharmacon*, 9(2), pp.178–185.
- Langdon, S.P., 2004. *Cancer Cell Culture: Methods and Protocols*. Totowa, New Jersey: Humana Press Inc.
- Mahmoodi, N., Motamed, N. & Paylakhi, S.H., 2014. The Comparison of The Effects of Silybin and Silybin-Phosphatidylcholine on Viability and ESR Expression

- in Human Breast Cancer T47D Cell Line. *Cell Journal*, 16(3), pp.299–308.
- Malik, F., Malaka, M.H., Fristiohady, A., Wahyuni, W., Hamsid, R., Sahidin, S. & Gani, A.F., 2021. Cytotoxic Activity of Kasumba Flower Ethanol Extract Turate (*Carthamus tinctorius* Linn.) Against The Line of Cancer Cells T47D Breasts. *Jurnal Farmasi Sains dan Praktis*, 7(3), pp.384–392.
- Masuya, T., Tsunematsu, Y., Hirayama, Y., Sato, M., Noguchi, H., Nakazawa, T. & Watanabe, K., 2019. Biosynthesis of Lagopodins in Mushroom Involves a Complex Network of Oxidation Reactions. *Organic and Biomolecular Chemistry*, 17(2), pp.234–239.
- Meiyanto, E., Husnaa, U., Kastian, R.F., Putri, H., Larasati, Y.A., Khumaira, A., Pamungkas, D.D.P., Jenie, R.I., Kawaichi, M., Lestari, B., Yokoyama, T. & Kato, J.Y., 2021. The Target Differences of Anti-Tumorigenesis Potential of Curcumin and its Analogues Against HER-2 Positive and Triple-Negative Breast Cancer Cells. *Advanced Pharmaceutical Bulletin*, 11(1), pp.188–196.
- Nowakowski, P., Markiewicz-Żukowska, R., Gromkowska-Kępką, K., Naliwajko, S.K., Moskwa, J., Bielecka, J., Grabia, M., Borawska, M. & Socha, K., 2021. Mushrooms as Potential Therapeutic Agents in The Treatment of Cancer: Evaluation of Antiglioma Effects of *Coprinus comatus*, *Cantharellus cibarius*, *Lycoperdon perlatum* and *Lactarius deliciosus* Extracts. *Biomedicine and Pharmacotherapy*, 133(11), pp.1–14.
- Nowakowski, P., Naliwajko, S.K., Markiewicz-Żukowska, R., Borawska, M.H. & Socha, K., 2020. The Two Faces of *Coprinus comatus*—Functional Properties and Potential Hazards. *Phytotherapy Research*, 34(11), pp.2932–2944.
- Nuri, N., Puspitasari, E., Hidayat, M.A., Ningsih, I.Y., Triatmoko, B. & Dianasari, D., 2020. Pengaruh Metode Ekstraksi Terhadap Kadar Fenol dan Flavonoid Total, Aktivitas Antioksidan serta Antilipase Daun Jati Belanda (*Guazuma ulmifolia*). *Jurnal Sains Farmasi & Klinis*, 7(2), pp.143–148.
- Peng, Y., Li, T., Jiang, H., Gu, Y., Chen, Q., Yang, C., Qi, W.L., Liu, S.Q. & Zhang, X., 2020. Postharvest Biochemical Characteristics and Ultrastructure of *Coprinus comatus*. *PeerJ*, 15(2), pp.1–19.
- Pirsko, V., Cakstina, I., Priedite, M., Dortane, R., Feldmane, L., Nakazawa-Miklasevica, M., Daneberga, Z., Gardovskis, J. & Miklasevics, E., 2018. An Effect of Culture Media on Epithelial Differentiation Markers in Breast Cancer Cell Lines MCF7, MDA-MB-436 and SkBr3. *Medicina*, 54(11), pp.1–17.
- Proborini, M.W., 2012. Eksplorasi dan Identifikasi Jenis-Jenis Jamur Klas Basidiomycetes di Kawasan Bukit Jimbaran Bali. *Jurnal Biologi*, 16(2), pp.45–47.
- Raha, P., Thomas, S., Thurn, K.T., Park, J. & Munster, P.N., 2015. Combined Histone Deacetylase Inhibition and Tamoxifen Induces Apoptosis in Tamoxifen Resistant Breast Cancer Models, By Reversing Bcl-2 Overexpression. *Breast Cancer Research*, 17(26), pp.1–16.
- Ratnaningtyas, N.I., Hernayanti, Ekowati, N. & Husen, F., 2021. Nephroprotective and Antioxidant Effects of Ethanol Extract of *Coprinus comatus* Mushroom Fruit-Bodies on Streptozotocin-induced Diabetic Rat Models. *IOP Conference Series: Earth and Environmental Science*, 1(1), pp.1–14.

- Ratnaningtyas, N.I., Hernayanti, H., Ekowati, N. & Husen, F., 2022a. Ethanol Extract of The Mushroom *Coprinus comatus* Exhibits Antidiabetic and Antioxidant Activities in Streptozotocin-induced Diabetic Rats. *Pharmaceutical Biology*, 60(1), pp.1126–1136.
- Ratnaningtyas, N.I., Hernayanti, H., Ekowati, N., Husen, F., Maulida, I., Kustianingrum, R. & Vidiyanti, V., 2022b. Antioxidant Activities and Properties of *Coprinus comatus* Mushroom Both Mycelium and Fruiting Body Extracts In Streptozotocin-Induced Hyperglycemic Rats Model. *Biosaintifika: Journal of Biology & Biology Education*, 14(1), pp.9–21.
- Ratnaningtyas, N.I. & Husen, F., 2022. Profil Mikokimia dan Aktivitas Antidiabetes Jamur *Coprinus comatus* pada Tikus Model Hiperglikemia dengan Induksi Streptozotocin. *Jurnal Mikologi Indonesia*, 6(1), pp.47–56.
- Ratnaningtyas, N.I., Husen, F., Ekowati, N. & Purwati, E.S., 2023. Eksplorasi, Identifikasi, dan Karakterisasi Senyawa Fitokimia *Coprinus comatus* dan *Ganoderma lucidum* Menggunakan GC-MS (Gas Chromatography-Mass). *Prosiding Seminar Nasional Lembaga Penelitian dan Pengabdian Kepada Masyarakat Universitas Jenderal Soedirman*, 12(1), pp.186–199.
- Sayuti, M., 2017. Pengaruh Perbedaan Metode Ekstraksi, Bagian dan Jenis Pelarut Terhadap Rendemen dan Aktivitas Antioksidan Bambu Laut (*Isis hippuris*). *Technology Science and Engineering Journal*, 1(3), pp.166–174.
- Shofa, A.F., Alam, T. & Nuralih, N., 2022. Uji Aktivitas Sitotoksik Ekstrak Polar, Semipolar, dan Non-Polar Daun Sambiloto (*Andrographis paniculata*) terhadap Sel Kanker Hati (HepG2). *Jurnal Kefarmasian Indonesia*, 12(1), pp.25–30.
- Stahl, E., 1985. *Analisis Obat Secara Kromatografi dan Mikroskopi*. Bandung: Penerbit Intitut Teknologi Bandung.
- Stilinović, N., Čapo, I., Vukmirović, S., Rašković, A., Tomas, A., Popović, M. & Sabo, A., 2020. Chemical Composition, Nutritional Profile and In Vivo Antioxidant Properties of The Cultivated Mushroom *Coprinus comatus*. *Royal Society of Chemistry*, 7(9), pp.1–17.
- Sudarmawan, I.H., Dlidir, D., Mudigdo, A. & Budiani, D.R., 2010. The Effect Of Ethanollic And Petroleum Ether Fractions of Bawang Dayak (*Eleutherine palmifolia*) Bulb Extract On Expression Of p53 Mutant In Breast Cancer Cell Line T47D. *Biofarmasi Journal of Natural Product Biochemistry*, 8(1), pp.17–26.
- 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), pp.209–249.
- Susanto, A., Ratnaningtyas, I. & Ekowati, N., 2018. Aktivitas Antioksidan Ekstrak Tubuh Buah Jamur Paha Ayam (*Coprinus comatus*) dengan Pelarut Berbeda. *Majalah Ilmiah biologi Biosfera : A Scientific Journal*, 35(2), pp.63–68.
- Syahputri, Y., Purwati, D.I., Sutanto, S. & Taufiq, A., 2021. Sintesis Kemosensor Ion CN- Berbasis Turunan Pirazolin dengan Logam CU. *Ekologia: Jurnal Ilmiah Ilmu Dasar dan Lingkungan Hidup*, 21(2), pp.81–87.

- Tamburian, V.N.M., Sumilat, D.A., Sinjal, C.A.L., Warouw, V., Rizald, M. & Sinjal, H., 2021. Uji Aktivitas Antibakteri dan Anti-Uv dari Ekstrak Etil Asetat Isolat Jamur Afbk 5c yang Bersimbion dengan *Ascidia Sigilina* sp. dari Perairan Pulau Bangka. *Jurnal Pesisir dan Laut Tropis*, 9(3), pp.95–103.
- Tasminatun, S., Meiyanto, E., Sugiyanto & Handayani, S., 2012. Ekstrak Etanolik Daun *Gynura procumbens* (Luor) Merr. Menghambat Proliferasi Sel Kanker Payudara Tikus Pada Karsinogenesis yang Diinduksi dengan dimetilbenz(a)antrazena (DMBA). *Pharmakon: Jurnal Farmasi Indonesia*, 13(1), pp.12–17.
- Tešanović, K., Pejin, B., Šibul, F., Matavulj, M., Rašeta, M., Janjušević, L. & Karaman, M., 2017. A Comparative Overview of Antioxidative Properties and Phenolic Profiles of Different Fungal Origins: Fruiting Bodies and Submerged Cultures of *Coprinus comatus* and *Coprinellus truncorum*. *Journal of Food Science and Technology*, 54(2), pp. 430-438.
- Toubi, A.R., Wasser, S.P., Agbarya, A. & Fares, F., 2013. Inhibitory Effect Of Ethyl Acetate Extract Of The Shaggy Inc Cap Medicinal Mushroom, *Coprinus comatus* (Higher Basidiomycetes) Fruit Bodies On Cell Growth Of Human Ovarian Cancer. *International Journal of Medicinal Mushrooms*, 15(5), pp.457–470.
- Tremmel, E., Kuhn, C., Kaltofen, T., Vilsmaier, T., Mayr, D., Mahner, S., Ditsch, N., Jeschke, U. & Vattai, A., 2020. L-Dopa-Decarboxylase (DDC) Is a Positive Prognosticator for Breast Cancer Patients and Epinephrine Regulates Breast Cancer Cell (MCF7 and T47D) Growth In Vitro According to Their Different Expression of Gi- Protein- Coupled Receptors. *International Journal of Molecular Sciences*, 21(24), pp.1–14.
- Wagner, H., Blatt, S. & Zgainski, E.M., 1984. *Plant Drug Analysis: A Thin Layer Chromatography Atlas*. New York Tokyo: Springer Verlag Berlin Heidelberg.
- Widjaja, S., Rusdiana & Ichwan, M., 2021. Enhanced Cytotoxic Effects of Clinacanthus Nutans and Doxorubicin in Combination Toward Breast Cancer Cell Lines. *Journal of Advanced Pharmaceutical Technology and Research*, 12(2), pp.152–156.
- Wijaya, H., Jubaidah, S. & Rukayyah, 2022. Perbandingan Metode Ekstraksi Maserasi dan Sokhletasi Terhadap Rendemen Ekstrak Batang Turi (*Sesbania grandiflora* L.). *Indonesian Journal of Pharmacy and Natural Product*, 5(1), pp.1–11.
- Wulandari, L., 2011. *Kromatografi Lapis Tipis*. Jember: PT. Taman Kampus Presindo.
- Zaidman, B.Z., Wasser, S.P., Nevo, E. & Mahajna, J., 2008. *Coprinus comatus* and *Ganoderma lucidum* Interfere with Androgen Receptor Function in LNCaP Prostate Cancer Cells. *Molecular Biology Reports*, 35(1), pp.107–117.