

DAFTAR PUSTAKA

- Abdulah, A., Mutmainnah, dan Dewi, N.P., 2024. Kandungan Vitamin C Jus Buah Kersen (*Muntingia calabura*). *Pharmacy Rorano Journal* 1(2), 36-41.
- Ananda, AD., 2009. Aktivitas Antioksidan dan Karakterisasi organoleptic minuman fungsional teh hijau (*Camellia sinensis*) rempah instant. Skripsi, Institut Pertanian Bogor, Bogor, Indonesia.
- Ardhany, S. D., Novaryatiin, S., Rizki, M., Pratama, F., dan Utar, Z., 2021. Irritation Test Of Bawang Dayak (*Eleutherine Bulbosa (Mill.) Urb.*) Extract Cream With Human Patch Test Method. In *JFSP* 7(1), 74-80.
- Aseprianto, 2021. Sistem Pakar Masalah Kulit Untuk Penentuan Ketepatan Perawatan Wajah Berminyak dengan Metode *Forward Chaining*. *J. Perencanaan, Sains, Teknologi dan Komputer* 4(1), 758–765.
- Ashley, K.R.N., Andreas, L., Cavazosa, M., dan Demage. 2001. Ultrasonic extraction as a sample preparation technique for elemental analysis by atomic spectrometry. *Journal of Analysis Atomic Spectrometry* 16, 1447-1153
- Azizah, L.N., Balfas, R.F., dan Rahmawati, Y.D., Analisis Kualitatif Merkuri Pada Krim Malam yang Digunakan oleh Mahasiswa Universitas Muhadi Setiabudi, *Jurnal Ilmiah JOPHUS* 4(01), 36–43. doi: 10.46772/jophus.v4i01.699.
- Agustina, S., Aidha, N.N., Oktarina, E., 2021. The Extraction of Antioxidants from *Chlorella vulgaris* for Cosmetics. *IOP Conf. Series: Materials Science and Engineering* 1011(1), 1-9. doi:10.1088/1757-899X/1011/1/012057.
- Aminudin, M.F., Sa'diyah, N., Prihastuti, P., Kurniasari, L., 2019., Formulasi Sabun Mandi Padat dengan Penambahan Ekstrak Kulit Manggis (*Garcinia mangostana L.*). *Jurnal Inovasi Teknik Kimia* 4(2), 49-52.
- Amrutkar, M.P.R., Borikar, M.S.P., Chaudari, M.V.A., Badgujar., M.N.D., dan Bhamre, M.R.D., 2020. Formulation And Evaluation Of Photo-Aging Face Gel By Using Algae Powder Extract (*Chlorella Vulgaris*). *IJCIRAS* 12(12), 17-24.
- Armenakas, M.A., 2013. Multi Active Microtargeted Anti-Aging Skin Care Cream Polymer Technology. *US patent*. US20130078294A1.
- Banyś, A., Hartman-Petrycka, M., Kras, K., Kamińska, M., Krusiec Świdergoł, B., Popielski, P., Lebedowska, A., dan Wilczyński, S., 2023. The Influence of Sebum on Directional Reflectance of the Skin. *Applied Sciences* 13(5), 2838. doi: 10.3390/app13052838
- Beumen, J., 2002. Dry Skin In: *Cosmetic Dermatology, Principal and Practice*. Mc York.
- r J.G., dan Mulla, M.S., 1994. Protein hydrolysates and bacterial contaminants as oviposition attractants for the mosquito *fasciatus*. *Royal Entomological Society* 8(4), 381-385. doi: -2915.1994.tb00103.x.



- Bezerra, D., Militao, G., Morais, Mayara and Sousa, D., 2017. The Dual Antioxidant/Prooxidant Effect of Eugenol and Its Action in Cancer Development and Treatment. *Nutrients* 9(2), 1367. doi: 10.3390/nu9121367.
- Brewer, M., 2011. *Comprehensive Review in Food Science and Food Safety*. Institute of Food Technologists 10(4), 221-247. doi:10.3390/nu9121367
- Cam, G., 2024. Exploring Young People's Understanding of Health and Healthy Lifestyles: A Qualitative Investigation. Tesis, University of Wellington, Wellington, Selandia Baru.
- Chaieb, K., Hajlaoui, H., Zmantar, T., Kahla-Nakbi, A. B., Rouabhia, M., Mahdouani, K., and Bakhrouf, A., 2007. The chemical composition and biological activity of clove essential oil, *Eugenia caryophyllata* (*Syzygium aromaticum* L.) Myrtaceae: a short review. *Phytotherapy Research* 21(6), 501-506. doi: 10.1002/ptr.2124.
- Chen, Z., dan Kearney, C.M., 2015 Nectar protein content and attractiveness to *Aedes aegypti* and *Culex pipiens* in plants with nectar/insect associations. *Acta Tropica*, 146,81-88. doi: 10.1016/j.actatropica.2015.03.010.
- Dali S, Firdaus, Rusman H.J., 2017. Produksi DAG dari virgin coconut oil melalui reaksi transesterifikasi menggunakan enzim lipase dedak padi (*Oriza sativa* L) spesifik C18-20 terimobilisasi karbon aktif sebagai biokatalis. *Indonesia* 5(1), 37-46.
- Deswani, D., Djuwitaningsih, S., Cartika, H., dan Malau, P., 2025. Irritation Test of Cream Preparations Made from Purple Cabbage Extract Against Healthy Skin Using The Path Test Method. *Jurnal Info Kesehatan* 23(1),1-9. doi: 10.31965/infokes.Vol23.Iss1.1458
- De, H.F., Susanto, A.B., Prasetyo, B., dan Limantara, L., 2012. Karotenoid dari Mikroalga dan Makroalga : Potensi Kesehatan Aplikasi dan Bioteknologi. *Jurnal Teknologi dan Industri Pangan* 23(2), 221-228.
- Drevon, C.A., Baksaas, K., and Krokan, H.E., 1993. Omega-3 Fatty Acids: Metabolism and Biological Effects. *Nature Journal* 1(2), 315-326.
- El-Baky H.H.A., El-Baz F.K., El-Baroty, 2008. Evaluation of marine alga *Ulva lactuca* L. as a source of natural preservative ingredient. *American-Eurasian Journal Agricultural and Environment Science*, 3 (3), 434-444.
- Elisa, N., Atfitasari, Y.D., dan Masduqi, A.F., 2023. Aktivitas Antioksidan Daun Pepaya dan Daun Cengkeh Secara In Vitro. *Jurnal Ilmiah Kesehatan Ar-Rum Salatiga* 8(1), 15-19.



), Azim, A.E., El-Gerby, M., dan Awad, D., 2014. Anti-Tumor, Antimicrobial and the Phenolic Constituents of Clove Flower (*im aromaticum*). *J Microbial Biochem Technol* 1-4. doi: 5948.S8-007

- Fahruruzzi, L.A., 2021. Uji Aktivitas Antioksidan Ekstrak Etanol Daun Petai Cina (*Leucaena glauca* (L.) Benth.) Dengan Metode DPPH (2,2-Diphenyl-1-picrylhidrazyl). *Sinteza* 1(1), 27-32. doi: 10.29408/sinteza.v1i1.3206
- Fretes, D.H., Susanto, A.B., Prasetyo, B., dan Limantara, L., 2012. Karotenoid dari Mikroalga dan Makroalga : Potensi Kesehatan Aplikasi dan Bioteknologi. *Jurnal Teknologi dan Industri Pangan* 23(2), 221-228.
- Frohlich, P.C., Santos, K.A., Hasan, S.D.M., dan Silva, E.A.D., 2022, Evaluation of the ethanolic ultrasound-assisted extraction from clove (*Syzygium aromaticum*) leaves and chemical characterization of the extracts. *Food Chemistry* 373(A), 1-9. doi:10.1016/j.foodchem.2021.131351.
- Gidado, I.M., Qassem, M., Triantis, I.F., dan Kyriacou, P.A., 2022. Review of Advances in the Measurement of Skin Hydration Based on Sensing of Optical and Electrical Tissue Properties. *Sensors (Basel, Switzerland)* 22(19). doi: 10.3390/s22197151
- Hadi, S., 2012, Pengambilan Minyak Atsiri Bunga Cengkeh (*Clove oil*) menggunakan pelarut n-Heksana dan Benzena. *Jurnal Bahan Alam Terbaru* 1(2), 25-30. doi: 10.15294/jbat.v1i2.2546.
- Handayani, S., Wahyulianingsih, W., Malik, A., 2016. Penetapan Kadar Flavonoid Total Ekstrak Daun Cengkeh (*Syzygium aromaticum* (L.). *J. Fitofarmaka Indonesia* 3(2), 188–93. doi: 10.33096/jffi.v3i2.221
- Hakim, N.A., 2018. Formulasi dan Evaluasi Nanoemulsi dari Extra Virgin Olive Oil (Minyak Zaitun Ekstra Murni) sebagai Anti-Aging. *TALENTA Conference series: Tropical Medicine* 1(2), 396 – 403. doi:10.32734/TM.V1I2.222
- Haro-Gonzalez, J.N., Castillo-Herera, G.A., Martinez-Velazquez, M., dan Espinosa-Andrews, H., 2021. Clove Essential Oil (*Syzygium aromaticum* L. Myrtaceae): Extraction, Chemical Composition, Food Applications, and Essential Bioactivity for Human Health. *Molecules* 26(21), 6387. doi: 10.3390/molecules26216387.
- Hidayat, F., Fitria, F., Rosanti, A.D., Sa'diyah, A., dan Annisa, A., 2024. Pelatihan Pengolahan Komoditas Utama Berupa Susu Sapi Menjadi *Hand And Body Lotion* Di Desa Pagerwojo Kabupaten Tulungagung Stabilitas Fisik Sediaan Lotion Ekstrak Kering Kulit Kayu Manis (*Cinnamomum burmannii*). *Jurnal Sabdariffarma* 10(1), 1–7.
- Hikmah, S.A., Rahim, E.A., dan Musafira, 2018. Sintesis Dan Karakteristik *Hand And Body Lotion* Dari Eugenol Menggunakan Katalis $H_2SO_4 - CH_3COOH$. *Jurnal Sabdariffarma* 4(1), 285-296.
- Ilinda, S., dan Widyasanti, A., 2021. Formulasi Handbody Lotion (Hand And Body Lotion) dan Karagenan) dengan Penambahan Ekstrak Delima Merah. *Jurnal Sabdariffarma* 15(1), 41-46. doi: 10.24198/jt.vol15n1.7.



- Idris, N.A., 2017, Uji Aktivitas Antioksidan Ekstrak Sarang Lebah dan Madu Hutan daru Luwu Utara dengan Metode DPPH (1,1-Difenil-2- Pikrilhidrazil). Skripsi, UIN Alauddin, Makassar, Indonesia.
- Ilhami, G., Elmastas, M., and Hasan, 2012. Antioxidant activity of clove oil - A powerful antioxidant source. *Arabian Journal of Chemistry* 5, 489-499. doi:10.1016/j.arabjc.2010.09.016
- Jinoni, D.A., Benjamin, M.A.Z., Mus, A.A., Goh, L.P.W., Rusdi, N.A., dan Awang, M.A., 2024. *Phaleria macrocarpa* (Scheff.) Boerl. (Mahkota Dewa) seed essential oils: Extraction yield, volatile components, antibacterial, and antioxidant activities based on different solvents using Soxhlet extraction. *Kuwait Journal of Science* 51(2), 1-7. doi: 10.1016/j.kjs.2023.100173.
- Kalangi, S.J.R. , 2013. Histofisiologi Kulit. *Jurnal Biomedik: JBM Suplemen* 5(3). doi: 10.35790/jbm.5.3.2013.4344.
- Kemendes RI, 2021. Profil Kesehatan Indonesia, Penerbit Kementerian Kesehatan RI. diakses tanggal 2 Oktober 2024. www.kemkes.go.id/id
- Kemendes RI, 2022. Profil Kesehatan Indonesia, Penerbit Kementerian Kesehatan RI. diakses tanggal 2 Oktober 2024. www.kemkes.go.id/id
- Kemendes RI, 2023. Profil Kesehatan Indonesia, Penerbit Kementerian Kesehatan RI. diakses tanggal 2 Oktober 2024. www.kemkes.go.id/id
- Khalaji, M., (2022) Evaluation of fatty acid profiles of *Chlorella Vulgaris* microalgae grown in dairy wastewater for producing biofuel. *J Environ Health Sci Eng.* 20(2), 691-697. doi: 10.1007/s40201-022-00808-z.
- Khnykin, D., Miner J.H., dan Jahnsen F., 2011. Role of fatty acid transporters in epidermis: Implications for health and disease. *Dermatoendocrinol* 3(2), 53-61. doi: 10.4161/derm.3.2.14816.
- Knox, S., dan O'Boyle, N.M., 2021. Skin Lipids in Health and Disease: A Review. *Chemistry and Physics of Lipids* 236, 1-14. doi: 10.1016/j.chemphyslip.2021.105055
- Komarudin, D., 2024. Uji Kualitatif dan Kuantitatif Logam Berat Berbahaya Merkuri pada Sediaan Krim Pemutih dan Hand Body Lotion yang diperoleh dari toko offline dan online menggunakan metode ICP-OES. *Indonesian Journal of Health Science* 4(5), 527–534. doi:10.54957/ijhs.v4i5.1014.
- Komisi Pestisida, 1995. Metode Standar Pengujian Efikasi Pestisida. Departemen Pertanian, Jakarta.



Utamai, N., dan Saryanti D., 2023. Fotoproteksi dan Aktivitas lanoenkapsulasi Ekstrak Etanol Buah Kersen (*Muntingia* Majalah Farmasi dan Farmakologi 27(3), 133-139. nff.v27i3.24892

Rustiwi, N.S., Sriwidodo, dan Abdassah, M., 2023. Review: ri Kedelai sebagai *Anti-aging* dalam Kosmetik. *Majalah* (1) 2023, 1-12. doi: 10.24198/mfarmasetika.v8i1.41761

- Lim, S., Shin, J., Cho, Y., dan Kim, K.P., 2019. Dietary Patterns Associated with Sebum Content, Skin Hydration and pH, and Their Sex-Dependent Differences in Healthy Korean Adults. *Nutrients* 11(3). doi: org/10.3390/nu11030619.
- Lin, T., Zhong, L., dan Santiago, J.L., 2017. Anti-inflammatory and Skin Barrier Repair Effects of Topical Application of Some Plant Oils. *International Journal Molecular Science* 19(1): 70. Doi10.3390.ijms19010070.
- Liu, Y., Liu, X., dan Yuan, W., 2022. Ultrasound For Microalgal Cell Disruption and Product Extraction: A Review. *Ultrasonics Sonochemistry* 87(106054). doi: 10.1016/j.ultsonch.2022.106054.
- Lutfiyah, A., 2021. Pengaruh Penambahan *Chlorella vulgaris* terhadap Kualitas Sabun Madu, Skripsi. Universitas Hasanuddin, Makassar, Indonesia.
- Manaf, Syalfinaf, Helmiyetti dan Ely, G., 2012. Efektivitas Minyak Arsiri Daun Kemangi (*Ocimum basillicum*) sebagai Bahan Aktif Losion Antinyamuk *Aedes aegypti* L. *Konservasi Hayati* 8(2), 27-32.
- Mane, S., Desai, S., Kishore, A., dan Singh, A., 2025. Comprehensive lipid extract characterization of *Chlorella vulgaris* microalgae: A multi-analytical approach. *Algal Reserch* 86:103919. doi: 10.1016/j.algal.2025.103919
- Mendikasari, S.A., Andi, N.T.A.M., dan Wa, O.S.Z., 2017. Formulasi dan Uji Stabilitas Lotion dari Ekstrak Etanol Daun Jambu Biji (*Psidium guajava* L.) sebagai Antioksidan. *Farmasi Sains dan Kesehatan* 3(2), 28-32.
- Marini, Ni'mah, T., Mahdalena, V., Komariah, R.H., dan Sitorus, H., 2018. Potensi Daya Tolak Ekstrak Daun Marigold (*Tagetes erecta* L.) terhadap Nyamuk *Aedes aegypti*. *Balaba: Jurnal Litbang Pengendalian Penyakit Bersumber Binatang Banjarnegara* 14(1), 53-62. doi: 10.22435/blb.v14i1.301.
- Marxen, K., Vanselow, K.H., Lippemeier, S., Hintze, R., Ruser, A., dan Hansen, U., 2007. Determination of DPPH Radical Oxidation Caused by Methanolic Extracts of Some Microalgal Species by Linear Regression Analysis of Spectrophotometric Measurements. *Sensors (Basel)* 37(10), 2080-2095. doi: 10.3390/s7102080.
- Mawazi, S.M., Ann, J., Othman, N., Khan, J., Alolayan, S.O., Al-Thagfan, S.S., et al., 2022. A Review of Moisturizers; History, Preparation, Characterization and Applications. *Cosmetics*, 9(3), 1–19. doi: 10.3390/cosmetics9030061.
- Mescher AL., 2010. *Junqueira's Basic Histology Text & Atlas*. McGraw HillMedical, New York.
- Mourelle, M., Lourdes, J Gómez, C.P., dan Legido J.L., 2017. The Potential Use of Algae and Cyanobacteria in Cosmetics and Thalassotherapy. *Cosmetics*, 4(1), 46. doi: 10.3390/cosmetics4040046.
- A., Rahimah., dan Selvia, R., 2018. Formulasi dan Aktivitas Ekstrak Daun Suruhan (*Peperomia pellucid* L). *Journal of Pharmaceutical Sciences* 2(1), 111-117.



- Nayaka, N.M.D.M.W., Suradnyana, I.G.M., dan Citra, N.P.G.D., 2023, Evaluasi Mutu Fisik Dan Uji Iritasi Sediaan Spray Antinyamuk Dari Ekstrak Etanol Daun Legundi (*Vitex Trifolia L.*). *Majalah Farmasi dan Farmakologi*, 27(3); 37-41. doi: 10.20956/Mff.V27i01.30043.
- Nimse, S. B., dan Pal, D., 2015. Free Radicals, Natural Antioxidants, and Their Reaction Mechanisms. *RSC Advances* 5(35), 27986–28006. doi: org/10.1039/c4ra13315c
- Nindatu, M., dan Noya, L., 2018. Efektivitas Daya Tolak Seduhan Daun Cengkeh (*Syzygium aromaticum L.*) terhadap Nyamuk *Anopheles Sp.* *Jurnal Biologi Edukasi* 10 (2), 17-20.
- Nishizawa, M., Kohno, M., Nishimura, M., Kitagawa, A., dan Niwano, Y., 2005. Non-reductive Scavenging of 1,1-Diphenyl-2-picrylhydrazyl (DPPH) by Peroxyradical: A Useful Method for Quantitative Analysis of Peroxyradical. *Pharm. Bull* 53(6), 714–716.
- Nurcahyo, H., Febriyanti, R., dan Purgiyanti., 2020. Eugenol Isolation Of Clove (*Syzygium Aromaticum*) Flower. *Journal of Natural Science and Mathematics Research* 6(1), 33-36.
- Pakaya, D.H.N., dan Abram, P.H., 2020. Polimerization of Eugenol Using a Concentrated Nitrit Acid (HNO₃) Catalyst and Media of Acetic Acid (CH₃COOH). *Media Eksakta* 16(2), 134-39. doi: 10.22487/me.v16i2.745.
- Panahi, Y., Darvishi, B., Jowzi, N., Beiraghdar, F., and Sahebkar, A., 2016. *Chlorella vulgaris*: A Multifunctional Dietary Supplement with Diverse Medicinal Properties. *Current Pharmaceutical Design* 22(2), 164-173. doi: 10.2174/1381612822666151112145226.
- Pereira L, Cotas J, dan Valado A., 2024 Antioxidants from microalgae and their potential impact on human well-being. *Explor Drug Sci.* 2:292–321. doi: 10.37349/eds.2024.00048.
- Perez-Garcia, O., Escalante, F.M., de-Bashan, L.E., Bashan, Y., 2011. Heterotrophic Cultures Of Microalgae: Metabolism And Potential Products. *Water Res* 45(1), 11-36. doi: 10.1016/j.watres.2010.08.037.
- Pranawati, E., Sugihartini, N., dan Yuwono, T. 2016. Sifat fisik dan daya iritasi krim tipe a/m minyak atsiri bunga cengkeh (*syzygium aromaticum*) dengan berbagai variasi konsentrasi. *Jurnal ilmiah farmasi* 12(1), 1-7.
- Pratimasari, D., Sugihartini, N., dan Yuwono, T., 2015. Evaluasi sifat fisik dan uji iritasi sediaan salep minyak atsiri bunga Cengkeh (*Syziqium aromaticum*) dalam *Jurnal Ilmiah Farmasi* 1(1), 9-15.
- H in Nature, Humans Skin. *The journal of Dermatologi* 45(9), : 10.1111/1346-8138.14489.
- amiyanti, R., 2021. Aktivitas Antioksidan Fraksi Etil Asetat Dan iah Parijoto (*Medinilla Speciosa Blume*) Dengan Peredaman



- Radikal Bebas DPPH. *Cendekia Journal Of Pharmacy* 5(2), 135-144. doi: 10.31596/Cjp.V5i2.143
- Purwanti, L., Dasuki, U.A., dan Imawan, A.R., 2019. Perbandingan aktivitas antioksidan dari seduhan 3 merk teh hitam (*Camellia sinensis* (L.) Kuntze) dengan metode seduhan berdasarkan SNI 01-1902-1995. *Jurnal Ilmiah Farmasi Farmasyifa* 2(1), 19–25. doi:10.29313/jiff.v2i1.4207.
- Putri, T., Nursida, N., dan Raya, I., 2020. The effectiveness of *Chlorella vulgaris* cream applied to male and female rats. *National Journal of Physiology*, 10(12), 1-4. doi: 10.5455/njppp.2020.10.10293202002112020.
- Putri, T.W., 2023. *Anti Aging* dari Asam Lemak Fitoplankton. NEM, Pekalongan.
- Putri, T.W., Raya, I., Natsir, H., dan Mayasari, E., 2017. Fatty acid extraction of *skeletonema costatum* by using avocado oil as solvent and its application as an anti-aging cream. *Oriental Journal of Chemistry* 33(6), 2848–2857. doi: 10.13005/ojc/330618.
- Rahmi, D., Yunilawati, R., dan Ratnawati, E., 2013. Pengaruh Nano Partikel Terhadap Aktivitas *Anti Aging* Pada Krim. *Jurnal sains material Indonesia* 4(3), 235-238.
- Raya, I., Anshar, A.M., Mayasari, E., Dwiyana, Z., dan Asdar, M., 2016. *Chorella vulgaris* and *Chlorella vulgaris*: Concentration of protein, Docosahexaenoic Acid Chorella (DHA), Eicosapentaenoic Acid (EPA) and variation concentration of maltodextrin via microencapsulation method. *International Journal of Applied Chemistry* 12(4), 539-548.
- Robbins, O., 2021. Omega-3s: Why Are They Important And What Are the Best Sources for Your Health?. Diakses dari: https://www.researchgate.net/figure/Gambar-1-Struktur-Biomolekuler-Asam-Lemak-Omega-3-ALA-EPA-dan-DHA-Robbins-O-2021_ [25 Oktober 2024]
- Rudia, A., Dwi, H., Amelia, N., Atifah, R., dan Nurhidayati, 2023. Omega-3 Memiliki Banyak Manfaat: Apakah Bisa Melawan Kanker?. *Unram Medical Journal* 12(2), 217-233.
- Sadeer, N. B., Montesano, D., Albrizio, S., Zengin, G., dan Mahomoodally, M.F., 2020. *Review : The Versatility of Antioxidant Assays in Food Science and Safety-Chemistry, Applications, Strengths, and Limitations*. *Antioxidants* 9(8), 1-39. doi: 10.3390/antiox9080709
- Safi, C., Zebib, B., Merah, O., Pontalier, P. and Vaca-Garsia, C., 2014. Morphology, composition, production, processing and applications of *Chlorella vulgaris*. *Renewable and Sustainable Energy* 35, 265-278.
- T., 2006. Toksisitas Racun Laba-laba *Nephila* sp. pada Larva *Biodeversitas* 7(2), 191-194.
- Wijaya, T.J. 2018. Are we going nuts on coconut oil? *Currents*, 7(3), 107-15.



- Sari, D.K., Sugihartini, N., dan Yuwono, T., 2015. Evaluasi ujiiritasi dan uji sifat fisik sediaan emulgel minyak atsiri bunga Cengkeh (*Syzygium aromaticum*). *Pharmaciana* 5(2), 115-120
- Sikiru, A.B., Arangasamy, A., Alemede, I.C., Egena, S.S.A., and Bhatta, R., 2019. Dietary supplementation effects of *Chlorella vulgaris* on performances, oxidative stress status and antioxidant enzymes activities of prepubertal New Zealand White rabbits. *Bulletin of the National Research Centre* 43(162), 1-7. doi: 10.1016/j.heliyon.2019.e02470.
- Suhendar, U. dan Fathurrahman, M., 2019. Aktivitas Antibakteri Ekstrak Metanol Bunga Cengkeh (*Syzygium aromaticum*) terhadap Bakteri *Streptococcus mutans*. *Fitofarmaka* 9(1), 25-34. doi: 10.33751/JF.V9I1.1257.
- Suryani, A. dan Wahyuni, T., 2025. Formulasi Hand & Body Lotion dengan Minyak Biji Tomat (*Solanum lycopersicum* L.): Studi Inovatif Pelembab dan Antioksidan untuk Perawatan Kulit. *Indonesian Journal of Medical and Pharmaceutical Science* 4(1), 60-71. doi: 10.30659/ijmps.v4i1.370.
- Syah, A.N.A., 2005. Perpaduan Sang Penakluk Penyakit VCO + Buah Merah. *Agro Media Pustaka*. Jakarta.
- Tamat, S.R., Wikanta, T., Maulina, L.S., 2007. Aktivitas Antioksidan Dan Toksisitas Senyawa Bioaktif Dari Ekstrak Rumput Laut Hijau *Ulva reticulata* Forsskal. *Jurnal Ilmu Kefarmasian Indonesia* 5(1), 31-36.
- Tantipaiboonwong, P., 2021. Molecular Mechanism Of Antioxidant And Anti-Inflammatory Effects Of Omega-3 Fatty Acids In Perilla Seed Oil And Rosmarinic Acid Rich Fraction Extracted From Perilla Seed Meal On TNF-A Induced A549 Lung Adenocarcinoma Cells. *Molecules* 26(22), 6757. doi: 10.3390/molecules26226757.
- Teh, K.Y., Loh, S.H., Aziz, A., Takahashi, K., Effendy, A.W.H., dan Cha, T.S., 2021, Lipid accumulation patterns and role of different fatty acid types towards mitigating salinity fluctuations in *Chlorella vulgaris*. *Scientific Reports* 11(438), 1-12. doi: org/10.1038/s41598-020-79950-3
- Thevamirtha, C., Balasubramaniam, A., Srithayalan S., dan Selvakumar, M., 2023. An Insight into the antioxidant activity of the facial cream, solid soap and liquid soap made using the carotenoid extract of palmyrah (*Borassus flabellifer*) fruit pulp. *Industrial Crops and Products* 195(1), 1-7. doi: 10.1016/j.indcrop.2023.116413.
- Tjiyang, W.M., Ni, P.D.K.D., Putu, A.A.P., Desak, P.A.S., Gusti, A.K.M., Putu, A.R and Ni, M.W.A., 2019. Analisis kualitatif dan kuantitatif kandungan paraben k *hand body lotion*. *Indonesian Journal of Legal and Forensic* 89-96. doi: 10.24843/IJLFS.2019.v09.i02.p04
- ., Momuat, L.I., dan Wuntu, A. D., 2019. Pemanfaatan VCO Karotenoid Tomat dan Karagenan dalam Pembuatan *Lotion*. *Jurnal Ilmiah Farmasi* 8(1), 94-105.



- Utami, A.N., Hajrin, W., dan Muliastuti, H., 2021. Formulasi Sediaan Lotion Ekstrak Etanol Daun Salam (*Syzygium polyanthum* (Wight) Walp.) dan Penentuan Nilai SPF Secara in Vitro. *Pharmaceutical Journal of Indonesia* 6(2), 77–83. doi: 10.21776/ub.pji.2021.006.02.2.
- Wael, S., Nuringtyas, T.R., Wijayanti, N., dan Astuti, P., 2018. Secondary Metabolites Production in Clove (*Syzygium aromaticum*): Chemical Compounds. *Journal of Biological Sciences* 18(7), 399-406. doi: 10.3923/jbs.2018.399.406.
- Wahyudi, T. 2008. Biokompatibilitas Semen Zinc Oxide Eugenol. USU. Diakses dari http://library.usu.ac.id/index.php/component/journals/index.php?option=com_journal_review&id=4649&task=view.
- Wahyuni, S., 2018. Formulasi dan Uji Aktivitas Antibakteri Sabun Padat Transparan Ekstrak Lengkuas (*Alpinia galaga* (L.) Willd) dan Ekstrak Kulit Batang Banyuru (*Pterospermum celebicum* Miq.) Terhadap Bakteri Gram Positif dan Gram Negative. Skripsi, Universitas Hasanuddin, Makassar, Indonesia.
- Wang, X., Jia, J., dan He, H., 2024. The Role of Linoleate Acid in Skin and Hair Health: A Review. *International Journal of Molecular Sciences* 26(246), 1-15. doi: [10.3390/ijms26010246](https://doi.org/10.3390/ijms26010246)
- Widayat, Cahyono, B., dan Ngadiwiyono, 2012, Rancang Bangun Dan Uji Alat Proses Peningkatan Minyak Cengkeh Pada Klaster Minyak Atsiri Kabupaten Batang. *Jurnal Ilmu Lingkungan* 10(2), 64-69. doi: 10.14710/jil.10.2.64-69.
- Winarsi, H., 2007. Antioksidan dan Radikal Bebas. Kanisius, Yogyakarta.
- World Health Organization Pesticides Evaluation Scheme (WHOPES), 2009. Guidelines for efficacy testing of mosquito repellents for human skin. World Health Organization, Geneva.
- Yasi, R.M., dan Harsanti, R.S., 2018. Pengaruh Variasi Konsentrasi Ekstrak Daun Kelor (*Moringa aloifera*) terhadap Kematian Larva *Aedes aegypti*. Seminar Nasional Program Studi Agribisnis Fakultas Pertanian Universitas Jember, diakes tanggal 25 Oktober 2024.
- Yuniar, A.W., Dewi, E.N., dan Wijayanti, I., 2023. Aktivitas Antioksidan dan Mutu *Body Lotion* Dengan Perbedaan Konsentrasi Ekstrak Rumput Laut *Ulva lactuca*. *Jurnal Ilmu dan Teknologi Perikanan* 5(2), 90-98. doi: 10.14710/potensi.%25Y.16969.
- Yuliantari, N.W.A., Widarta, I.W.R., Permana, I.D.G.M., 2017. Pengaruh Suhu dan Waktu Ekstraksi Terhadap Kandungan Flavonoid dan Aktivitas Antioksidan Ekstrak Kulit Buah (*Annonamuricata* L.) Menggunakan Ultrasonik. *Media Ilmiah* 4(1), 35-42.
- Yuliantari, N.W.A., Christian Gunaidi, F., Fide Kusuma, K., 2024. Kegiatan Air Dan Minyak Kulit Pada Populasi Lanjut Usia. *NUSANTARA* 4(1), 1-10. doi: 10.55606/nusantara.v4i1.2835



- Yusharyahya, S.N., 2021. Mekanisme Penuaan Kulit sebagai Dasar Pencegahan dan Pengobatan Kulit Menua. e-Jurnal Kedokteran Indonesia 9(2),150-159. doi: 10.23886/ejki.9.49.150.
- Yohannes, R., dan Rivan, M.E.I., 2022. Klasifikasi Jenis Kanker Kulit Menggunakan CNN-SVM. Jurnal Algoritme 2(2), 133-144. doi:10.35957/algoritme.v2i2.2363.



Optimized using
trial version
www.balesio.com