

DAFTAR PUSTAKA

- Abubakar, A. R., & Haque, M. (2020). Preparation of Medicinal Plants: Basic Extraction and Fractionation Procedures for Experimental Purposes. *Journal of Pharmacy & Bioallied Sciences*, 12(1), 1–10. https://doi.org/https://doi.org/10.4103/jpbs.JPBS_175_19
- Adisakwattana, S., & Chanathong, B. (2011). α -glucosidase Inhibitory Activity And Lipid-Lowering Mechanisms of *Moringa oleifera* Leaf Extract. *Eur Rev Med Pharmacol Sci*, 15(7), 803–808.
- Aji, A., Bahri, S., & Tantalia. (2017). Pengaruh Waktu Ekstraksi dan Konsentrasi HCl Untuk Pembuatan Pektin dari Kulit Jeruk Bali (*Citrus maxima*). *Jurnal Teknologi Kimia Unimal*, 6(1), 33–44.
- Ali Redha, A., Perna, S., Riva, A., Petrangolini, G., Peroni, G., Nichetti, M., Iannello, G., Naso, M., Faliva, M. A., & Rondanelli, M. (2021). Novel insights on anti-obesity potential of the miracle tree, *Moringa oleifera*: A systematic review. In *Journal of Functional Foods* (Vol. 84). Elsevier Ltd. <https://doi.org/10.1016/j.jff.2021.104600>
- Anam, C., Agustini, T. W., & Romadhon. (2014). Pengaruh Pelarut yang Berbeda Pada Ekstraksi *Spirulina plantesis* Serbuk Sebagai Antioksidan dengan Metode Soxhletasi. *Jurnal Pengolahan Dan Bioteknologi Hasil Perikanan*, 3(4), 106–112. <http://www.ejournal-s1.undip.ac.id/index.php/jpbhp>
- Andini, A. R., Aditiawati, & Septadina, I. S. (2016). Pengaruh Faktor Keturunan dan Gaya Hidup Terhadap Obesitas pada Murid SD Swasta di Kecamatan Ilir Timur 1 Palembang. *Jurnal Kedokteran Dan Kesehatan*, 3(2), 114–119.
- Anggraini, R., & Khabibi, J. (2022). Karakteristik Ekstrak Serbuk Gergajian Kayu Tembesu (*Fagraea fragrans*), Rengas (*Gluta renghas*), dan Medang (*Litsea sp.*) Sebagai Larvasida Lalat Rumah (*Musca domestica*). *Jurnal Tengawang*, 12(1), 86–93.
- Anisa, N. N., Kartika, G. S., Majid, V. A. A., Azizah, W., Arni, A., & Erika, F. (2022). Penentuan LC50 Fraksi Metanol dan n-Heksana Daun Paku Sisik Naga (*D.pilloseoides*) di Kawasan Universitas Mulawarman dengan Metode *Brine Shrimp Lethality Test* (BSLT). *Jurnal Sains Dan Kesehatan*, 4(6), 569–576. <https://doi.org/10.25026/jsk.v4i6.1227>
- Anzano, A., Ammar, M., Papaianni, M., Grauso, L., Sabbah, M., Capparelli, R., & Lanzotti, V. (2021). *Moringa oleifera* lam.: A Phytochemical and Pharmacological Overview. In *Horticulturae* (Vol. 7, Issue 10). MDPI. <https://doi.org/10.3390/horticulturae7100409>

- Aprisuandani, S., Kurniawan, B., Harahap, S., & Chandra, A. (2021). Hubungan Indeks Massa Tubuh (IMT) dengan Ukuran Telapak Kaki Pada Anak Usia 11-12 Tahun. *Jurnal Kedokteran Ibnu Nafis*, 10(2), 116–121.
- Ayuningtyas, D., Kusuma, D., Amir, V., Tjandrarini, D. H., & Andarwati, P. (2022). Disparities in Obesity Rates among Adults: Analysis of 514 Districts in Indonesia. *Nutrients*, 14(16). <https://doi.org/10.3390/nu14163332>
- Badan Penelitian dan Pengembangan Kesehatan. (2018). *Hasil Utama Riskesdas 2018*. Kementerian Kesehatan RI. https://kesmas.kemkes.go.id/assets/upload/dir_519d41d8cd98f00/files/Hasil-riskesdas-2018_1274.pdf
- Bais, S., Singh, G. S., & Sharma, R. (2014). Antiobesity and Hypolipidemic Activity of *Moringa oleifera* Leaves against High Fat Diet-Induced Obesity in Rats. *Advances in Biology*, 2014, 1–9. <https://doi.org/10.1155/2014/162914>
- Barp, L., Višnjevec, A. M., & Moret, S. (2023). Pressurized Liquid Extraction: A Powerful Tool to Implement Extraction and Purification of Food Contaminants. In *Foods* (Vol. 12, Issue 10). MDPI. <https://doi.org/10.3390/foods12102017>
- Barton, B., & Peat, J. K. (2014). *Medical Statistics: A Guide to SPSS, Data Analysis, and Critical Appraisal* (Second). John Wiley & Sons Ltd.
- Bitwell, C., Indra, S. Sen, Luke, C., & Kakoma, M. K. (2023). A Review of Modern and Conventional Extraction Techniques and Their Applications for Extracting Phytochemicals From Plants. *Scientific African*, 19, e01585. <https://doi.org/10.1016/J.SCIAF.2023.E01585>
- Buchholz, T., & Melzig, M. F. (2015). Polyphenolic Compounds as Pancreatic Lipase Inhibitors. In *Planta Medica* (Vol. 81, Issue 10, pp. 771–783). Georg Thieme Verlag. <https://doi.org/10.1055/s-0035-1546173>
- Castro-López, C., Ventura-Sobrevilla, J. M., González-Hernández, M. D., Rojas, R., Ascacio-Valdés, J. A., Aguilar, C. N., & Martínez-Ávila, G. C. G. (2017). Impact of Extraction Techniques on Antioxidant Capacities and Phytochemical Composition of Polyphenol-Rich Extracts. *Food Chemistry*, 237, 1139–1148. <https://doi.org/10.1016/j.foodchem.2017.06.032>
- Cheng, X., Bi, L., Zhao, Z., & Chen, Y. (2015). Advances in Enzyme Assisted Extraction of Natural Products. *3rd International Conference on Material, Mechanical and Manufacturing Engineering (IC3ME 2015)*, 371–375.
- Chisholm-Burns, M. A., Schwinghammer, T. L., Malone, P. M., Kolesar, J. M., Bookstaver, P. B., & Lee, K. C. (2019). *Pharmacotherapy Principles &*

Practice (M. A. Chisholm-Burns, T. L. Schwinghammer, P. M. Malone, J. M. Kolesar, P. B. Bookstaver, & K. C. Lee, Eds.; Fifth Edition). McGraw-Hill Education.

- Dani, B. Y., Wahidah, B. F., & Syaifudin, A. (2019). Etnobotani Tanaman Kelor (*Moringa oleifera* Lam.) di Desa Kedungbulus Gembong Pati. *Al-Hayat: Journal of Biology and Applied Biology*, 2(2), 44. <https://doi.org/10.21580/ah.v2i2.4659>
- Dludla, P. V., Nkambule, B. B., Jack, B., Mkandla, Z., Mutize, T., Silvestri, S., Orlando, P., Tiano, L., Louw, J., & Mazibuko-Mbeje, S. E. (2019). Inflammation and Oxidative Stress in An Obese State and The Protective Effects of Gallic Acid. In *Nutrients* (Vol. 11, Issue 1). MDPI AG. <https://doi.org/10.3390/nu11010023>
- Dubale, S., Kebebe, D., Zeynudin, A., Abdissa, N., & Suleman, S. (2023). Phytochemical Screening and Antimicrobial Activity Evaluation of Selected Medicinal Plants in Ethiopia. *Journal of Experimental Pharmacology*, 15, 51–62. <https://doi.org/10.2147/JEP.S379805>
- El-Shehawi, A. M., Alkafafy, M., El-Shazly, S., Sayed, S., Farouk, S., Alotaibi, S., Madkour, D. A., Khalifa, H. K., & Ahmed, M. M. (2021). *Moringa oleifera* leaves Ethanolic Extract Ameliorates High Fat Diet-Induced Obesity in Rats. *Journal of King Saud University - Science*, 33(6). <https://doi.org/10.1016/j.jksus.2021.101552>
- Elya, B., Yasman, & Edawati, Z. (2018). Antioxidant Activity of The Ascidian Marine Invertebrates, *Didemnum Sp.* *International Journal of Applied Pharmaceutics*, 10(1), 81–86. <https://doi.org/10.22159/ijap.2018.v10s1.17>
- Fadillah, W. N., Sukarno, N., Iswantini, D., Rahminiwati, M., Hanif, N., & Waite, M. (2022). InVitro Pancreatic Lipase Inhibition by Marine Fungi *Purpureocillium lilacinum* Associated with *Stylissa sp.* Sponge as Anti-obesity Agent. *HAYATI Journal of Biosciences*, 29(1), 76–86. <https://doi.org/10.4308/HJB.29.1.76-86>
- Fitch, A. K., & Bays, H. E. (2022). Obesity Definition, Diagnosis, Bias, Standard Operating Procedures (SOPs), and Telehealth: An Obesity Medicine Association (OMA) Clinical Practice Statement (CPS) 2022. *Obesity Pillars*, 1, 100004. <https://doi.org/10.1016/j.obpill.2021.100004>
- Fitri, R. A., Lestari, T. A., Sari, Y., Sutriyo, S., & Mun'Im, A. (2020). Freeze Drying of Natural Deep Eutectic Solvent (NADES) Extract of Green Coffee Bean *Coffea canephora pierre ex a. froehner*. *Journal of Research in Pharmacy*, 24(2), 225–232. <https://doi.org/10.35333/jrp.2020.139>

- Fruh, S. M. (2017). Obesity: Risk Factors, Complications, and Strategies for Sustainable Long-Term Weight Management. *Journal of the American Association of Nurse Practitioners*, 29, S3–S14. <https://doi.org/10.1002/2327-6924.12510>
- Ganjayi, M. S., Karunakaran, R. S., Gandham, S., & Meriga, B. (2023). Quercetin-3-O-rutinoside from *Moringa oleifera* Downregulates Adipogenesis and Lipid Accumulation and Improves Glucose Uptake by Activation of AMPK/Glut-4 in 3T3-L1 Cells. *Revista Brasileira de Farmacognosia*, 33(2), 334–343. <https://doi.org/10.1007/s43450-022-00352-9>
- Habibi, A. I., Firmansyah, R. A., & Setyawati, S. M. (2018). Skrining Fitokimia Ekstrak n-Heksan Korteks Batang Salam (*Syzygium polyanthum*). *Indonesian Journal of Chemical Science*, 7(1), 1–4. <http://journal.unnes.ac.id/sju/index.php/ijcs>
- Habibi, N. A., Fathia, S., & Utami, C. T. (2019). Perubahan Karakteristik Bahan Pangan pada Keripik Buah dengan Metode *Freeze Drying* (Review). *Jurnal Sains Terapan*, 5(2), 67–76.
- Hamed, Y. S., Abdin, M., Akhtar, H. M. S., Chen, D., Wan, P., Chen, G., & Zeng, X. (2019). Extraction, Purification by Macrospores Resin and In Vitro Antioxidant Activity of Flavonoids From *Moringa oliefera* leaves. *South African Journal of Botany*, 124, 270–279. <https://doi.org/10.1016/j.sajb.2019.05.006>
- Handoyo, D. L. Y. (2020). Pengaruh Lama Waktu Maserasi (Perendaman) Terhadap Kekentalan Ekstrak Daun Sirih (*Piper Betle*). *Jurnal Farmasi Tinctura*, 2(1), 34–41.
- Hanifa, N. I., Wirasisya, D. G., Muliani, A. E., Utami, S. B., & Sunarwidhi, A. L. (2021). Phytochemical Screening of Decoction and Ethanolic Extract of *Amomum dealbatum* Roxb. Leaves. *Jurnal Biologi Tropis*, 21(2), 510–518. <https://doi.org/10.29303/jbt.v21i2.2758>
- Hasbullah, R., & Putra, N. S. (2022). Study on the Vacuum Pressure and Drying Time of Freeze-drying Method to Maintain the Quality of Strawberry (*Fragaria virginiana*). *Jurnal Teknik Pertanian Lampung (Journal of Agricultural Engineering)*, 11(2), 279–291. <https://doi.org/10.23960/jtep-1.v11i2.279-291>
- Hou, F. Bin, Zhang, N., Zhu, G. H., Fan, Y. F., Sun, M. R., Nie, L. L., Ge, G. B., Zheng, Y. J., & Wang, P. (2023). Functional Imaging and Inhibitor Screening of Human Pancreatic Lipase by a Resorufin-Based Fluorescent Probe. *Biosensors*, 13(2). <https://doi.org/10.3390/bios13020283>

- Iqbal, E., Salim, K. A., & Lim, L. B. L. (2015). Phytochemical screening, total phenolics and antioxidant activities of bark and leaf extracts of *Goniothalamus velutinus* (Airy Shaw) from Brunei Darussalam. *Journal of King Saud University - Science*, 27(3), 224–232. <https://doi.org/10.1016/j.jksus.2015.02.003>
- Iswantini, D., Hanif, N., RizkiPranoto, D., & Trivadila. (2021). Active Fraction as Anti-obesity by in Vitro toward Pancreatic Lipase Activity. *IOP Conference Series: Materials Science and Engineering*, 1070(1), 012012. <https://doi.org/10.1088/1757-899x/1070/1/012012>
- Japaries, W., Hardi, Y. F., & Ayu, F. D. (2023). Kajian Sistematis Efek Empiris, Farmakologis dan Klinis Terapi Kelor (*Moringa oleifera* Lam.). *An-Najat: Jurnal Ilmu Farmasi Dan Kesehatan*, 1(3), 70–84.
- Jaradat, N., Hawash, M., & Dass, G. (2021). Phytochemical Analysis, In-Vitro Anti-Proliferative, Anti-Oxidant, Anti-Diabetic, and Anti-Obesity Activities of *Rumex rothschildianus* Aarons. Extracts. *BMC Complementary Medicine and Therapies*, 21(1). <https://doi.org/10.1186/s12906-021-03282-6>
- Kaparang, D. R., Padaunan, E., & Kaparang, G. F. (2022). Indeks Massa Tubuh dan Lemak Viseral Mahasiswa. *Aksara: Jurnal Ilmu Pendidikan Nonformal*, 8(3), 1579. <https://doi.org/10.37905/aksara.8.3.1579-1586.2022>
- Kashyap, P., Kumar, S., Riar, C. S., Jindal, N., Baniwal, P., Guiné, R. P. F., Correia, P. M. R., Mehra, R., & Kumar, H. (2022). Recent Advances in Drumstick (*Moringa oleifera*) Leaves Bioactive Compounds: Composition, Health Benefits, Bioaccessibility, and Dietary Applications. In *Antioxidants* (Vol. 11, Issue 2). MDPI. <https://doi.org/10.3390/antiox11020402>
- Kementerian Kesehatan RI. (2015). *Pedoman Umum Pengendalian Obesitas*. Kementerian Kesehatan RI.
- Kementerian Kesehatan RI. (2017). *Farmakope Herbal Indonesia* (II). Kementerian Kesehatan RI.
- Kementerian Kesehatan RI. (2018, November). *Klasifikasi Obesitas Setelah Pengukuran IMT*. <https://p2ptm.kemkes.go.id/infographic-p2ptm/obesitas/klasifikasi-obesitas-setelah-pengukuran-imt>
- Kilany, O. E., Abdelrazek, H. M. A., Aldayel, T. S., Abdo, S., & Mahmoud, M. M. A. (2020). Anti-obesity Potential of *Moringa olifera* seed Extract and Lycopene on High Fat Diet Induced Obesity In Male *Sprague dawely* Rats. *Saudi Journal of Biological Sciences*, 27(10), 2733–2746. <https://doi.org/10.1016/j.sjbs.2020.06.026>

- Kim, G. N., Shin, M. R., Shin, S. H., Lee, A. R., Lee, J. Y., Seo, B. Il, Kim, M. Y., Kim, T. H., Noh, J. S., Rhee, M. H., & Roh, S. S. (2016). Study of Antiobesity Effect through Inhibition of Pancreatic Lipase Activity of *Diospyros kaki* Fruit and *Citrus unshiu* Peel. *BioMed Research International*, 2016. <https://doi.org/10.1155/2016/1723042>
- Komala, A. M., & Haryoto. (2020). Tests of Ash Content, Moisture Content and Dry Shrinkage of Ethanol Extracts of Capidada Leaves (*Sonneratia alba*) and Ketapang (*Terminilia cattapa*). *Journal of Nutraceuticals and Herbal Medicine* /, 3(1), 10–14. <http://journals.ums.ac.id/index.php/jnhm>
- Kosmalski, M., Deska, K., Bąk, B., Różycka-Kosmalska, M., & Pietras, T. (2023). Pharmacological Support for the Treatment of Obesity—Present and Future. In *Healthcare (Switzerland)* (Vol. 11, Issue 3). MDPI. <https://doi.org/10.3390/healthcare11030433>
- Kumar, K., Srivastav, S., & Sharanagat, V. S. (2021). Ultrasound Assisted Extraction (UAE) of Bioactive Compounds from Fruit and Vegetable Processing By-products: A Review. *Ultrasonics Sonochemistry*, 70, 1–11. <https://doi.org/10.1016/j.ultsonch.2020.105325>
- Liu, T. T., Liu, X. T., Chen, Q. X., & Shi, Y. (2020). Lipase Inhibitors for Obesity: A Review. In *Biomedicine and Pharmacotherapy* (Vol. 128). Elsevier Masson SAS. <https://doi.org/10.1016/j.biopha.2020.110314>
- Liu, X., Wang, Y., Duclos, R. I., & O'Doherty, G. A. (2018). Stereochemical Structure Activity Relationship Studies (S-SAR) of Tetrahydrolipstatin. *ACS Medicinal Chemistry Letters*, 9(3), 274–278. <https://doi.org/10.1021/acsmchemlett.8b00050>
- Magaji, U. F., Sacan, O., & Yanardag, R. (2022). Antilipase, Antiacetylcholinesterase and Antioxidant Activities of *Moringa oleifera* Extracts. *Rom Biotechnol Lett*, 27(1), 3208–3214. <https://doi.org/10.25083/rbl/27.1/3208-3214>
- Mahasuari, N. P. S., Paramita, N. L. P. V., & Putra, A. A. G. R. Y. (2020). Effect of Methanol Concentration as a Solvent on Total Phenolic and Flavonoid Content of Beluntas Leaf Extract (*Pulchea indica* L.). *Journal of Pharmaceutical Science and Application*, 2(2), 77. <https://doi.org/10.24843/jpsa.2020.v02.i02.p05>
- Mahboob, A., Samuel, S. M., Mohamed, A., Wani, M. Y., Ghorbel, S., Miled, N., Büsselberg, D., & Chaari, A. (2023). Role of Flavonoids in Controlling Obesity: Molecular Targets and Mechanisms. In *Frontiers in Nutrition* (Vol. 10). Frontiers Media S.A. <https://doi.org/10.3389/fnut.2023.1177897>

- Marhaeni, L. S. (2021). Daun Kelor (*Moringa oleifera*) Sebagai Sumber Pangan Fungsional dan Antioksidan. *Jurnal Agrisia*, 13(2), 40–53.
- Martono, Y., Yanuarsih, F. F., Aminu, N. R., & Muningar, J. (2019). Fractionation and Determination of Phenolic and Flavonoid Compound from *Moringa oleifera* Leaves. *Journal of Physics: Conference Series*, 1307(1), 1–8. <https://doi.org/10.1088/1742-6596/1307/1/012014>
- Mehganathan, P., & Rosli, N. A. (2022). A Review on Extraction of Bioactive Compounds from *Moringa oleifera*: Their Principle, Advantages, and Disadvantages. *Med Aromat Plant*, 11(1), 1–5.
- Mokgehle, S., Araya, N., Mofokeng, M., Makgato, M., Amoo, S., Maboka, K., du Plooy, C., & Araya, H. (2022). Regrowth Response and Nutritional Composition of *Moringa oleifera* to Cutting Back in Three Agro-Ecological Zones in South Africa. *Horticulturae*, 8(10). <https://doi.org/10.3390/horticulturae8100963>
- Muharrami, L. K., Munawaroh, F., Ersam, T., & Santoso, M. (2020). Phytochemical Screening of Ethanolic Extract: a Preliminary Test on Five Medicinal Plants on Bangkalan. *Jurnal Pena Sains*, 7(2). <https://doi.org/1921107/jps.v7i2.8722>
- Mukaka, M. M. (2012). Statistics Corner: A guide to appropriate use of Correlation coefficient in medical research. In *Malawi Medical Journal* (Vol. 24, Issue 3). www.mmj.medcol.mw
- Muti, A. F., Adia, R., Rifkia, V., & Pradana, D. L. C. (2024). Lipase Enzyme Inhibitory Activity of Jombang Leaves Extract (*Taraxacum officinale* F.H. Wigg). *Jurnal Farmasi Galenika (Galenika Journal of Pharmacy) (e-Journal)*, 10(1), 50–61. <https://doi.org/10.22487/j24428744.2024.v10.i1.16454>
- Nderitu, K. W., Mwenda, N. S., Macharia, N. J., Barasa, S. S., & Ngugi, M. P. (2017). Antiobesity Activities of Methanolic Extracts of *Amaranthus dubius*, *Cucurbita pepo*, and *Vigna unguiculata* in Progesterone-Induced Obese Mice. *Evidence-Based Complementary and Alternative Medicine*, 2017. <https://doi.org/10.1155/2017/4317321>
- Nerín, C., Domeñ, C., & Salafranca, J. (2012). Advances in Sample Preparation of Environmental Solid Matrices. In J. Pawliszyn (Ed.), *Comprehensive Sampling and Sample Preparation: Analytical Techniques for Scientists* (Vol. 3, pp. 783–796). Elsevier. <https://doi.org/10.1016/B978-0-12-381373-2.10113-9>
- Nizioł-Łukaszewska, Z., Furman-Toczek, D., Bujak, T., Wasilewski, T., & Hordyjewicz-Baran, Z. (2020). *Moringa oleifera* L. Extracts as Bioactive Ingredients That Increase Safety of Body Wash Cosmetics. *Dermatology Research and Practice*, 2020, 1–14. <https://doi.org/10.1155/2020/8197902>

- Nowak, D., & Jakubczyk, E. (2020). The Freeze-Drying of Foods—The Characteristic of the Process Course and the Effect of Its Parameters on the Physical Properties of Food Materials. *Foods*, 9(10), 1–27. <https://doi.org/10.3390/foods9101488>
- Nurwantoro, N., Susanti, S., & Rizqiati, H. (2020). The Effect of Different Type Drying Methods on Chemical Characteristics and Microbiology of Goat Milk Powder Kefir. *Journal of Applied Food Technology*, 7(1), 19–24. <https://doi.org/10.17728/jaft.6699>
- Nwankwo, C. S., Okpomor, E. O., Dibagar, N., Wodecki, M., Zwierz, W., & Figiel, A. (2023). Recent Developments in the Hybridization of the Freeze-Drying Technique in Food Dehydration: A Review on Chemical and Sensory Qualities. *Foods*, 12(18), 1–19. <https://doi.org/10.3390/foods12183437>
- Ogundipe, A., Adetuyi, B., Iheagwam, F., Adefoyeke, K., Olugbuyiro, J., Ogunlana, O., & Ogunlana, O. (2022). In Vitro Experimental Assessment of Ethanolic Extract of Moringa oleifera Leaves as an α -Amylase and α -Lipase Inhibitor. *Genetics Research*, 2022. <https://doi.org/10.1155/2022/4613109>
- Oldoni, T. L. C., Merlin, N., Bicas, T. C., Prasniewski, A., Carpes, S. T., Ascari, J., de Alencar, S. M., Massarioli, A. P., Bagatini, M. D., Morales, R., & Thomé, G. (2021). Antihyperglycemic Activity of Crude Extract and Isolation of Phenolic Compounds with Antioxidant Activity from Moringa Oleifera Lam. Leaves Grown In Southern Brazil. *Food Research International*, 141. <https://doi.org/10.1016/j.foodres.2020.110082>
- Pant, D. R., Pant, N. D., Saru, D. B., Yadav, U. N., & Khanal, D. P. (2017). Phytochemical Screening and Study of Antioxidant, Antimicrobial, Antidiabetic, Anti-Inflammatory and Analgesic Activities of Extracts From Stem Wood Of *Pterocarpus marsupium* Roxburgh. *Journal of Intercultural Ethnopharmacology*, 6(2), 170–176. <https://doi.org/10.5455/jice.20170403094055>
- Parbuntari, H., Prestica, Y., Gunawan, R., Nurman, M. N., & Adella, F. (2018). Preliminary Phytochemical Screening (Qualitative Analysis) of Cacao Leaves (*Theobroma Cacao* L.). *Eksakta*, 19(2), 40–45. <https://doi.org/10.24036/eksakta/vol19-iss02/142>
- Pareek, A., Pant, M., Gupta, M. M., Kashania, P., Ratan, Y., Jain, V., Pareek, A., & Chaturgoon, A. A. (2023). Moringa oleifera: An Updated Comprehensive Review of Its Pharmacological Activities, Ethnomedicinal, Phytopharmaceutical Formulation, Clinical, Phytochemical, and Toxicological Aspects. In *International Journal of Molecular Sciences* (Vol. 24, Issue 3). MDPI. <https://doi.org/10.3390/ijms24032098>

- Pollini, L., Tringaniello, C., Ianni, F., Blasi, F., Manes, J., & Cossignani, L. (2020). Impact of Ultrasound Extraction Parameters on The Antioxidant Properties of *Moringa oleifera* Leaves. *Antioxidants*, 9(4). <https://doi.org/10.3390/antiox9040277>
- Pop, O. L., Kerezsi, A. D., & Ciont, C. (2022). A Comprehensive Review of *Moringa oleifera* Bioactive Compounds—Cytotoxicity Evaluation and Their Encapsulation. In *Foods* (Vol. 11, Issue 23). MDPI. <https://doi.org/10.3390/foods11233787>
- Prasetya, W., & Yastanto, A. J. (2023). Evaluasi Waktu Pengeringan pada Metode Freeze Drying terhadap Karakteristik Kacang Tanah, Bawang Putih dan Tomat Menggunakan Alat Labconco FreeZone 2.5 L. *Indonesian Journal of Laboratory*, 6(2), 100–105.
- Puspitasari, D., Meliyana, S. M., Jayadilaga, Y., Rhesa, M., & Saleh, A. R. (2023). Pengenalan Manfaat dan Pengolahan *Moringa olifera* pada Anak di BTN Kasumberang Kabupaten Gowa. *JHP2M: Jurnal Hasil-Hasil Pengabdian Dan Pemberdayaan Masyarakat*, 2(1), 72–77. <https://journal.unm.ac.id/index.php/JHP2M>
- Putri, N. A. P., & Yuniarti, E. (2023). Literature Review: Effectiveness of *Moringa* Leaf Plants (*Moringa oleifera*) on Male Hormones. *Jurnal Biologi Tropis*, 23(1), 517–523. <https://doi.org/10.29303/jbt.v23i1.5705>
- Raal, A., Meos, A., Hinrikus, T., Heinämäki, J., Romāne, E., Gudienė, V., Jakštas, V., Koshovyi, O., Kovaleva, A., Fursenco, C., Chiru, T., & Nguyen, H. T. (2020). Dragendorff's Reagent: Historical Perspectives and Current Status of a Versatile Reagent Introduced Over 150 Years Ago at the University of Dorpat, Tartu, Estonia. *Pharmazie*, 75(7), 299–306. <https://doi.org/10.1691/ph.2020.0438>
- Rahman, N. F., Nursamsiar, Megawati, Handayani, & Soares, C. A. M. (2021). Total Phenolic and Flavonoid Contents and Antioxidant Activity of Kembang Bulan Leaves (*Tithonia diversifolia* (Hemsley) A. Gray). *Indonesian Journal of Pharmaceutical Science and Technology*, 1(1), 57–65. <http://jurnal.unpad.ac.id/ijpst/UNPAD57>
- Reubun, Y. T. A., Kumala, S., Setyahadi, S., & Simanjuntak, P. (2021). Freezed Drying of Kelor Leaves Extract (*Moringa oleifera* Lam.). *Jurnal Sains Dan Kesehatan*, 3(4), 470–474. <https://doi.org/10.25026/jsk.v3i4.427>
- Risfianty, D. K., & Indrawati. (2020). Perbedaan Kadar Tanin Pada Infusa Daun Asam Jawa (*Tamarindus indica* L.) Dengan Metode Spektrofotometer UV-VIS. *Lombok Journal of Science (LJS)*, 2(3), 1–7.

- Rodríguez-Pérez, C., Quirantes-Piné, R., Fernández-Gutiérrez, A., & Segura-Carretero, A. (2015). Optimization of Extraction Method To Obtain A Phenolic Compounds-Rich Extract from *Moringa oleifera* Lam Leaves. *Industrial Crops and Products*, 66, 246–254. <https://doi.org/10.1016/j.indcrop.2015.01.002>
- Salhi, A., Amara, S., Mansuelle, P., Puppo, R., Lebrun, R., Gontero, B., Aloulou, A., & Carrière, F. (2020). Characterization of All The Lipolytic Activities in Pancreatin and Comparison with Porcine and Human Pancreatic Juices. *Biochimie*, 169, 106–120. <https://doi.org/10.1016/j.biochi.2019.07.004>
- Sari, W. F., & Suwondo, A. (2022). A Literature Review of Effect of *Moringa oleifera* Leaf Extract Toward Lipid Profile Level in Hyperlipidemia Patients. *International Journal of Nursing and Health Services (IJNHS)*, 5(3), 294–303. <https://doi.org/10.35654/ijnhs.v5i3.581>
- Schober, P., & Schwarte, L. A. (2018). Correlation Coefficients: Appropriate Use and Interpretation. *Anesthesia and Analgesia*, 126(5), 1763–1768. <https://doi.org/10.1213/ANE.0000000000002864>
- Septiyanti, S., & Seniwati, S. (2020). Obesity and Central Obesity in Indonesian Urban Communities. *Jurnal Ilmiah Kesehatan (JIKA)*, 2(3), 118–127. <https://doi.org/10.36590/jika.v2i3.74>
- Seyedan, A., Alshawsh, M. A., Alshagga, M. A., Koosha, S., & Mohamed, Z. (2015). Medicinal Plants and Their Inhibitory Activities against Pancreatic Lipase: A Review. In *Evidence-based Complementary and Alternative Medicine* (Vol. 2015). Hindawi Publishing Corporation. <https://doi.org/10.1155/2015/973143>
- Singh, M., Singh, S., & Verma, D. (2020). Morphological and Pharmacognostical Evaluation of *Moringa oleifera* Lam. (Moringaceae): A Plant with High Medicinal Value in Tropical and Subtropical Parts of the World. *Pharmacognosy Reviews*, 14(28), 138–183. <https://doi.org/10.5530/phrev.2020.14.17>
- Stoytcheva, M., Montero, G., Zlatev, R., León, J. Á., & Gochev, V. (2012). Analytical Methods for Lipases Activity Determination: A review. In *Current Analytical Chemistry* (Vol. 8). <https://www.researchgate.net/publication/258222492>
- Sugiatmi, S., & Handayani, D. R. (2018). Faktor Dominan Obesitas pada Siswa Sekolah Menengah Atas di Tangerang Selatan Indonesia. *Jurnal Kedokteran Dan Kesehatan*, 14(1), 1. <https://doi.org/10.24853/jkk.14.1.1-10>

- Sukweenadhi, J., Yunita, O., Setiawan, F., Kartini, Siagian, M. T., Danduru, A. P., & Avanti, C. (2020). Antioxidant Activity Screening of Seven Indonesian Herbal Extract. *Biodiversitas*, 21(5), 2062–2067. <https://doi.org/10.13057/biodiv/d210532>
- Sulistyarini, I., Sari, D. A., & Wicaksono, T. A. (2020). Skrining Fitokimia Senyawa Metabolit Sekunder Batang Buah Naga (*Hylocereus polyrhizus*). *Jurnal Ilmiah Cendekia Eksakta*, 5(1), 56–62.
- Sundu, R., Supriningrum, R., & Fatimah, N. (2022). Kandungan Total Senyawa Fenol, Total Senyawa Flavonoid dan Aktivitas Antioksidan Ekstrak Etanol Kulit Batang Sekilang (*Embelia borneensis* Scheff.). In *Bivalen: Chemical Studies Journal* (Vol. 5, Issue 2). <http://jurnal.fkip.unmul.ac.id/index.php/bivalen>
- Swamy, G. M., & Meriga, B. (2020). Therapeutic Effect of *Moringa oleifera* Leaf Extracts on Oxidative Stress and Key Metabolic Enzymes Related to Obesity. *International Journal of Pharmaceutical Sciences and Research*, 11(4), 1949–1957. [https://doi.org/10.13040/IJPSR.0975-8232.11\(4\).1949-57](https://doi.org/10.13040/IJPSR.0975-8232.11(4).1949-57)
- Takaeb, M. J., & Leo, M. I. (2023). Identifikasi Metabolit Sekunder pada Sopi Kualin (SOKLIN) yang Dibuat Dengan dan Tanpa Fermentasi di Desa Kualin Nusa Tenggara Timur. *Jurnal Sains Dan Edukasi Sains*, 6(2), 111–116. <https://doi.org/10.24246/juses.v6i2p111-116>
- Válek, T., & Pohanka, M. (2021). The Determination of Lipase Activity by Measuring pH Using Ion-Sensitive Field-effect Transistor. *International Journal of Electrochemical Science*, 16(7), 1–11. <https://doi.org/10.20964/2021.07.59>
- Vergara-Jimenez, M., Almatrafi, M. M., & Fernandez, M. L. (2017). Bioactive Components in *Moringa oleifera* Leaves Protect Against Chronic Disease. *Antioxidants*, 6(4), 1–13. <https://doi.org/10.3390/antiox6040091>
- Vifta, R. L., & Advistasari, Y. D. (2018). Skrining Fitokimia, Karakterisasi, dan Penentuan Kadar Flavonoid Total Ekstrak dan Fraksi-Fraksi Buah Parijoto (*Medinilla speciosa* B). *Prosiding Seminar Nasional Unimus*, 1.
- Wang, H., Provan, G. J., & Helliwell, K. (2004). Determination of Rosmarinic Acid and Caffeic Acid in Aromatic Herbs by HPLC. *Food Chemistry*, 87(2), 307–311. <https://doi.org/10.1016/j.foodchem.2003.12.029>
- Wharton, S., Raiber, L., Serodio, K. J., Lee, J., & Christensen, R. A. (2018). Medications That Cause Weight Gain and Alternatives In Canada: A Narrative Review. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*, 11, 427–438. <https://doi.org/10.2147/DMSO.S171365>

- Widyapuri, D., Purbowati, I. S. M., & Wibowo, C. (2022). Pengaruh Waktu Ekstraksi Menggunakan Ultrasonic Assisted Extraction Terhadap Antosianin Jantung Pisang (*Musa spp*). *Agrointek : Jurnal Teknologi Industri Pertanian*, *16*(2), 242–251. <https://doi.org/10.21107/agrointek.v16i2.12559>
- Wijaya, D. R., Paramitha, M., & Putri, N. P. (2019). Ekstraksi Oleoresin Jahe Gajah (*Zingiber officinale* var. *Officinarum*) Dengan Metode Sokletasi. *Jurnal Konversi*, *8*(1), 9–16.
- World Health Organization. (2021, Juni 9). *Obesity and Overweight*, Terdapat di: <https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight> [Diakses pada 27 Juni 2023]
- World Health Organization. (2021, Juni 9). *Obesity and Overweight*, Terdapat di: <https://www.who.int/news-room/facts-in-pictures/detail/6-facts-on-obesity> [Diakses pada 11 Oktober 2023]
- World Health Organization. (2022, Maret 4). *World Obesity Day 2022 – Accelerating action to stop obesity*, Terdapat di: <https://www.who.int/news/item/04-03-2022-world-obesity-day-2022-accelerating-action-to-stop-obesity#:~:text=More%20than%201%20billion%20people,This%20number%20is%20still%20increasing> [Diakses pada 11 Oktober 2023]
- Yakaiah, V., Dakshinamoorthi, A., & Sree Sudha, T. Y. (2021). Novel Aspects in Inhibiting Pancreatic Lipase with Potential New Compound from Nutmeg in Connection with Obesity – In Vitro, In Silico, In Vivo and Ex Vivo Studies. *Maedica - A Journal of Clinical Medicine*, *16*(3). <https://doi.org/10.26574/maedica.2021.16.3.445>
- Yu, H., Dong, S., Wang, L., & Liu, Y. (2017). The Effect of Triterpenoid Saponins on Pancreatic Lipase In Vitro: Activity, Conformation, Kinetics, Thermodynamics and Morphology. *Biochemical Engineering Journal*, *125*, 1–9. <https://doi.org/10.1016/j.bej.2017.05.010>
- Zahar, N. A., Hanun, N. Z., Yulistiani, F., & Heriyanto. (2021). Studi Literatur Implementasi Metode *Microwave Assisted Extraction* (MAE) Untuk Ekstraksi Fenol Dengan Pelarut Etanol. *Jurnal Fluida*, *14*(2), 80–87.
- Zaid, A. N., Zohud, N., E'Layan, B., Aburadi, T., Jaradat, N., Ali, I., Hussein, F., Ghanem, M., Qaddomi, A., & Zaaror, Y. A. (2017). Pharmacodynamic Testing and New Validated HPLC Method To Assess The Interchangeability Between Multi-source Orlistat Capsules. *Drug Design, Development and Therapy*, *11*, 3291–3298. <https://doi.org/10.2147/DDDT.S138926>

- Zhang, Q. W., Lin, L. G., & Ye, W. C. (2018). Techniques For Extraction and Isolation of Natural Products: A Comprehensive Review. In *Chinese Medicine (United Kingdom)* (Vol. 13, Issue 1). BioMed Central Ltd. <https://doi.org/10.1186/s13020-018-0177-x>
- Zimare, S. B., Mankar, G. D., & Barmukh, R. B. (2021). Optimization of Ultrasound-Assisted Extraction of Total Phenolics and Flavonoids From The Leaves of *Lobelia nicotianifolia* and Their Radical Scavenging Potential. *Current Research in Green and Sustainable Chemistry*, 4. <https://doi.org/10.1016/j.crgsc.2021.100109>