

DAFTAR PUSTAKA

- Abbas, A., Naqvi, S. A. R., Rasool, M. H., Noureen, A., Mubarik, M. S., & Tareen, R. B., 2021, Phytochemical Analysis, Antioxidant and Antimicrobial Screening of Seriphidium Oliverianum Plant Extracts, *Dose-Response : a Publication of International Hormesis Society*, 19(1), 15593258211004739. <https://doi.org/10.1177/15593258211004739>.
- Adhitama, R., 2020, Pengaruh Penambahan Variasi Konsentrasi Pemanis Stevia dan Lama Fermentasi Teh Hijau (*Camellia sinensis*) Terhadap Kualitas Teh Kombucha, *Skripsi*, Lampung: Jurusan Pendidikan Biologi, Fakultas Tarbiyah dan Keguruan, Universitas Islam Negeri Raden Intan Lampung.
- Agustina, R., & Fadhil, R., 2021, Organoleptic Test using The Hedonic and Descriptive Methods to Determine the Quality of Pliek U, In *IOP Conference Series: Earth and Environmental Science*, 644(1), p. 012006, IOP Publishing, doi: <https://iopscience.iop.org/article/10.1088/1755-1315/644/1/012006>.
- Allen, L.V., 2002, *The Art, Science and Technology of Pharmaceutical Compounding*, 2 nd Ed., 233-234, American Pharmaceutical Assosiation, Washington D. C.
- Almasaudi S., 2021, The Antibacterial Activities of Honey, *Saudi journal of biological sciences*, 28(4), 2188–2196. <https://doi.org/10.1016/j.sjbs.2020.10.017>.
- Ansel, H.C ., Allen, L.V. & Popovich, N.G., 2014, *Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems*, 9 th Ed., Lippinacott Willliams & Wilkins, United States of America.
- Ansel, H.C., 2010, *Pharmaceutical Calculations*, 13 th Edition, Lippinacott Willliams & Wilkins, United States of America.
- Association of South East Asian Nations (ASEAN), 2013, *Annex V Asean Guidelines on Stability Study and Shelf-Life of Health Supplements*, Association of South East Asian Nations, Yogyakarta.
- Astuti, I.Y., Yupitawati, A., & Nurulita, N.A., 2021, Anti-aging Activity of Tetrahydrocurcumin, *Centella asiatica* Extract, and its Mixture, *Advances in Traditional Medicine*, 21, 57-63, doi: <https://doi.org/10.1007/s13596-020-00532-9>.
- Badan Standardisasi Nasional Indonesia, 2013, *SNI 01 - 3544 – 2013 Sirup*, Jakarta.
- Baiti, Q.A.N. 2023, Optimasi Formula Suplemen Antioksidan Jelly Candy Ekstrak Bunga Krisan (*Chrysanthemum indicum* L.) dengan Variasu Glukomanan

dan Kappa Karagenan sebagai Gelling Agent, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

- Bandopadhyay, S., Mandal, S., Ghorai, M., Jha, N. K., Kumar, M., Radha, Ghosh, A., Proćków, J., Pérez de la Lastra, J. M., & Dey, A., 2023, Therapeutic Properties and Pharmacological Activities of Asiaticoside and Madecassoside: A Review, *Journal of Cellular and Molecular Medicine*, 27(5), 593–608, doi: <https://doi.org/10.1111/jcmm.17635>.
- Bolton, S., 1997, *Pharmaceutical Statistics Practical and Clinical Application*, 3rd Ed., 610-613, Marcel Dekker Inc, New York.
- BPOM RI, 2010, *Acuan Sediaan Herbal*, Volume Kelima, Edisi Pertama, Badan POM RI, Jakarta.
- BPOM RI., *Peraturan Badan Pengawas Obat dan Makanan Nomor 32 Tahun 2019 tentang Persyaratan Keamanan dan mutu Obat Tradisional*, Badan POM RI, Jakarta.
- Cao, X., Xiong, X., Xu, Z., Zeng, Q., He, S., Yuan, Y., Wang, Y., Yang, X., & Su, D., 2020, Comparison of Phenolic Substances and Antioxidant Activities in Different Varieties of *Chrysanthemum* Flower Under Simulated Tea Making Conditions, *Journal of Food Measurement and Characterization*, 14, 1443–1450, doi: <https://doi.org/10.1007/s11694-020-00394-4>
- Chughtai, M.F.J., Pasha, I., Butt, M.S., & Asghar, M., 2019, Biochemical and Nutritional Attributes of *Stevia rebaudiana* Grown in Pakistan, *Progress in Nutrition*, 21(Supplement 2), 210-222, doi: <http://dx.doi.org/10.23751/pn.v21i2-S.6430>.
- de Menezes, B. B., Frescura, L. M., Duarte, R., Villetti, M. A., & da Rosa, M. B., 2021, A Critical Examination of The DPPH Method: Mistakes and Inconsistencies in Stoichiometry and IC₅₀ Determination by UV-Vis Spectroscopy, *Analytica Chimica Acta*, 1157, 338398, doi: <https://doi.org/10.1016/j.aca.2021.338398>.
- Depkes RI, 1977, *Materia Medika Indonesia*, Jilid I, Departemen Kesehatan RI, Jakarta.
- Depkes RI, 2017, *Farmakope Herbal Indonesia*, Edisi II, Departemen Kesehatan RI, Jakarta.
- Depkes RI, 2020, *Farmakope Indonesia*, Edisi VI, Departemen Kesehatan RI, Jakarta.
- Depkes, R.I., 2000, *Parameter Standar Umum Ekstrak Tumbuhan Obat*, Departemen Kesehatan Republik Indonesia, Jakarta.

- Dolongtelide, J.I., Fatimawali, F., Tallei, T.E., Suoth, E.J., Simbala, H.E.I., Antasionasti, I., & Kalalo, M.J., 2023, In Vitro Antioxidant Activity of *Chrysanthemum indicum* Flowers Extract and Its Fraction. *Malacca Pharmaceutics*, 1(2), 43-47, doi: <https://doi.org/10.60084/mp.v1i2.26>.
- Ermawati, D.E., Sasmito, E., Mufrod, M., Pramitha Esha, N.D., Ni Putu, U.A., Anggi, K.D., Muchammad, H. & Aini, S., 2016, Optimum Dose and Formulation of *Centella asiatica* L. Urban Extract Against IgG of Wistar Strain Male Mices which Induced by BCG Vaccine, *Journal of Food and Pharmaceutical Sciences*, 4(3), doi: <https://doi.org/10.14499/jfps>.
- European Medicines Agency (EMA), 2022, *Assessment Report on Centella asiatica (L.) Urb., Herba*, Science Medicine Health, United Kingdom.
- Flieger, J., Flieger, W., Baj, J., & Maciejewski, R., 2021, Antioxidants: Classification, Natural Sources, Activity/Capacity Measurements, and Usefulness for The Synthesis of Nanoparticles, *Materials*, 14(15), 4135, doi: 10.3390/ma14154135.
- González-Montemayor, Á.M., Flores-Gallegos, A.C., Serrato-Villegas, L.E., López-Pérez, M.G., Montañez-Sáenz, J.C., & Rodríguez-Herrera, R., 2019, Honey and Syrups: Healthy and Natural Sweeteners with Functional Properties. In *Natural beverages* (pp. 143-177), Academic Press, doi: <https://doi.org/10.1016/B978-0-12-816689-5.00006-7>.
- Hamlaoui, I., Bencheraiet, R., Bensegueni, R., & Bencharif, M., 2018, Experimental and Theoretical Study on DPPH Radical Cavening Mechanism of Some Chalcone Quinoline Derivatives. *Journal of Molecular Structure*, 1156, 385-389, doi: <https://doi.org/10.1016/j.molstruc.2017.11.118>.
- Hanapi, N.A., Mohamad Arshad, A.S., Abdullah, J.M., Tengku Muhammad, T.S., & Yusof, S.R., 2021, Blood-Brain Barrier Permeability of Asiaticoside, Madecassoside and Asiatic Acid in Porcine Brain Endothelial Cell Model, *Journal of pharmaceutical sciences*, 110(2), 698–706, doi: <https://doi.org/10.1016/j.xphs.2020.09.015>.
- Harborne, J.B., 1996, Metode Fitokimia: Penuntun Cara Modern Menganalisa Tumbuhan Diterjemahkan oleh: K. Padmawinata dan I. Soediro, Penerbit ITB, Bandung.
- Harwoko, H., Pramono, S., & Nugroho, A.E., 2014, Triterpenoid-Rich Fraction of *Centella asiatica* Leaves and in Vivo Antihypertensive Activity, *International Food Research Journal*, 21(1), doi: <http://www.ifrj.upm.edu.my/>.

- Hashim, P., 2011, *Centella asiatica* in Food and Beverage Applications and Its Potential Antioxidant and Neuroprotective Effect. *International Food Research Journal*, 18(4), 1215–1222.
- Hodaei, M., Rahimmalek, M., & Arzani, A., 2021, Variation in Bioactive Compounds, Antioxidant and Antibacterial Activity of Iranian *Chrysanthemum morifolium* Cultivars and Determination of Major Polyphenolic Compounds Based on HPLC Analysis, *Journal of food science and technology*, 58(4), 1538–1548, doi: <https://doi.org/10.1007/s13197-020-04666-1>.
- Hong, S.I., Kwon, S.H., Kim, M.J., Ma, S.X., Kwon, J.W., Choi, S.M., Choi, S.I., Kim, S.Y., Lee, S.Y., & Jang, C.G., 2012, Anxiolytic-Like Effects of *Chrysanthemum indicum* Aqueous Extract in Mice: Possible Involvement of GABAA Receptors and 5-HT1A Receptors, *Biomolecules & therapeutics*, 20(4), 413–417, doi: <https://doi.org/10.4062/biomolther.2012.20.4.413>.
- Hossain, M.L., Lim, L.Y., Hammer, K., Hettiarachchi, D., & Locher, C., 2021, Honey-Based Medicinal Formulations: A Critical Review, *Applied Sciences*, 11(11): 5159, doi: <https://doi.org/10.3390/app11115159>.
- Hua, S., 2019, Physiological and Pharmaceutical Considerations for Rectal Drug Formulations. *Front Pharmacol*, 10:1196, doi: 10.3389/fphar.2019.01196.
- Idris, F.N., Mohd, Nadzir, M., 2021, Comparative Studies on Different Extraction Methods of *Centella asiatica* and Extracts Bioactive Compounds Effects on Antimicrobial Activities, *Antibiotics (Basel)*, 10(4):457. doi: 10.3390/antibiotics10040457.
- Integrated Taxonomic Information System (ITIS), 2009, *Taxonomic Hierarchy : Chrysanthemum*, https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=35791#null, diakses pada 9 Oktober 2022.
- Integrated Taxonomic Information System (ITIS), 2023, *Taxonomic Hierarchy : Centella asiatica (L.) Urb.*, https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=29612#null, diakses pada tanggal 7 September 2023.
- Irianti, T.T., Nuranto, S., Sugiyanto, & Kuswandi, 2017, *Antioksidan*, Penerbit Grafika Indah, Yogyakarta.
- Jadhao, A.G., Sanap, M.J., & Patil, P.A., 2021, Formulation and Evaluation of Herbal Syrup, *Asian Journal of Pharmaceutical Research and Development*, 9(3), 16-22, doi: <http://dx.doi.org/10.22270/ajprd.v9i3.955>.

- James, J., & Dubery, I. 2011, Identification and Quantification of Triterpenoid Centelloids in *Centella asiatica* (L.) Urban by Densitometric TLC, *JPC-J Planar Chromat* 24, 82–87 (2011).
<https://doi.org/10.1556/JPC.24.2011.1.16>.
- Julai, K., Sridonpai, P., Ngampeerapong, C., Tongdonpo, K., Suttisansanee, U., Kriengsinyos, W., On-Nom, N., & Tangsuphoom, N., 2023, Effects of Extraction and Evaporation Methods on Physico-Chemical, Functional, and Nutritional Properties of Syrups from Barhi Dates (*Phoenix dactylifera* L.), *Foods (Basel, Switzerland)*, 12(6), 1268, doi: <https://doi.org/10.3390/foods12061268>.
- Kandasamy, A., Aruchamy, K., Rangasamy, P., Varadhaiyan, D., Gowri, C., Oh, T. H., Ramasundaram, S., & Athinarayanan, B., 2023, Phytochemical Analysis and Antioxidant Activity of *Centella Asiatica* Extracts: An Experimental and Theoretical Investigation of Flavonoids, *Plants*, 12(20). <https://doi.org/10.3390/plants12203547>.
- Kaya, B., Menemen, Y., & Saltan, F.Z., 2012, Flavonoid Compounds Identified in *Alchemilla* L. Species Collected in The North-eastern Black Sea Region of Turkey, *African Journal of Traditional, Complementary, and Alternative Medicines* : *AJTCAM*, 9(3), 418–425, doi: <https://doi.org/10.4314/ajtcam.v9i3.18>.
- Kharisma, A.D., & Upi C.N.Y., 2023, Evaluation of Antioxidant Activity and Toxicity of *Cinnamomum Burmannii* B. from Different Provinces of Indonesia, *Journal of Hunan University Natural Sciences*, 50(4), doi: <https://doi.org/10.55463/issn.1674-2974.50.4.16>.
- Khilar, S., Singh, A.P., Biagi, M., & Sharma, A., 2022, An Insight into Attributes of *Stevia rebaudiana* Bertoni: Recent Advances in Extraction Techniques, Phytochemistry, Food Applications and Health Benefits, *Journal of Agriculture and Food Research*, 10, 100458, doi: <https://doi.org/10.1016/j.jafr.2022.100458>.
- Kim, D.H., Park, J.S., Lee, J.K., Park, H.Y., Ahn, S.M., Kim, D.H., & Kim, H.K., 2017, *U.S. Patent No. 9,700,506*, Washington, DC: U.S. Patent and Trademark Office.
- Kowalska, T., & Sajewicz, M., 2022, Thin-Layer Chromatography (TLC) in the Screening of Botanicals—Its Versatile Potential and Selected Applications, *Molecules*, 27(19), 6607, doi: <https://doi.org/10.3390/molecules27196607>.
- Kristanti, A.N., Aminah, N.S., Tanjung, M., & Kurniadi, B., 2008, *Buku Ajar Fitokimia*, Airlangga University Press, Surabaya.

- Krochta J.M., Elizabeth A. B. & Myran O.N.C., 1994, *Edible Coatings And Films to Improve Food Quality*, 325-326, Technomic Publishing Company, Unites State.
- Lachman, L., Lieberman, H.A., & Kanig, J.L., 2008, *Teori dan Praktek Farmasi Industri II*, diterjemahkan oleh Siti Suyatmi, Edisi III, UI Press, Jakarta.
- Larsen, P., & Ahmed, M., 2022, Evaluation of Antioxidant Potential of Honey Drops and Honey Lozenges, *Food Chemistry Advances*, 1, 100013, doi: <https://doi.org/10.1016/j.focha.2022.100013>.
- Legiawati, L., Fadilah, F., Bramono, K., & Pratama, A.I., 2023, In Silico Study of *Centella asiatica* Derivatives as Antioxidant: Enhancer of Superoxide Dismutase and Glutathione Peroxidase Activity, *Research Journal of Pharmacy and Technology*, 16(1), 399-403. doi: 10.52711/0974-360X.2023.00068.
- Liu, Y.H., Mou, X., Zhou, D.Y., Zhou, D.Y., & Shou, C.M., 2018, Extraction of Flavonoids from *Chrysanthemum morifolium* and Antitumor Activity in Vitro. *Experimental and therapeutic medicine*, 15(2), 1203–1210, doi: <https://doi.org/10.3892/etm.2017.5574>.
- Markham, K.R., 1988, *Cara Mengidentifikasi Flavonoid*, diterjemahkan oleh Padmawinata. K., Penerbit ITB, Bandung.
- Martemucci, G., Costagliola, C., Mariano, M., D'andrea, L., Napolitano, P., & D'Alessandro, A.G., 2022, Free Radical Properties, Source and Targets, Antioxidant Consumption and Health, *Oxygen*, 2(2):48-78, doi: <https://doi.org/10.3390/oxygen2020006>.
- Martin, A.N., Sinko, P.J., & Singh, Y., 2011, *Martin's Physical Pharmacy and Pharmaceutical Science*, 6 th Ed., Lippincott Williams & Wilkins, Philadelphia.
- Matthews, D.G., Caruso, M., Murchison, C.F., Zhu, J.Y., Wright, K.M., Harris, C.J., Gray, N.E., Quinn, J.F., & Soumyanath, A., 2019, *Centella asiatica* Improves Memory and Promotes Antioxidative Signaling in 5XFAD Mice. *Antioxidants*, 8(12), 630, doi: <https://doi.org/10.3390/antiox8120630>.
- Mendonça, J.D.S., Guimarães, R.D.C.A., Zorretto-Pinheiro, V.A., Fernandes, C.D.P., Marcelino, G., Bogo, D., Freitas, K.D.C., Hiane, P.A., de Pádua Melo, E.S., Vilela, M.L.B. and Nascimento, V.A.D., 2022. Natural Antioxidant Evaluation: A Review of Detection Methods. *Molecules*, 27(11), 3563, doi: <https://doi.org/10.3390%2Fmolecules27113563>.
- Meulenbeld, G.J., & Wujastyk, D., 2001, *Studies on Indian Medical History*, Motilal Banarsidas, New Delhi, India.

- Mishra, P., Pandey, C. M., Singh, U., Gupta, A., Sahu, C., & Keshri, A., 2019, Descriptive Statistics and Normality Tests for Statistical Data, *Annals of Cardiac Anaesthesia*, 22(1), 67–72, doi: https://doi.org/10.4103/aca.ACA_157_18.
- Mohammed, K., Fatima, B., Abdennour, B., & Lakhdar, A., 2017, The Fit between Strategic Choice and Organizational Structure and Their Impact on The Effectiveness of The Organization: Study of a Set of Medium and Large Institutions in Algeria, *International Journal of Business and Social Science*, 8(1), 1-9.
- Montgomery, D.C., 2017, *Design and Analysis of Experiments*, 8th Edition, John Wiley & Sons Inc., United States.
- Monton, C., Settharaksa, S., Luprasong, C., & Songsak, T., 2019, An Optimization Approach of Dynamic Maceration of *Centella asiatica* to Obtain The Highest Content of Four Centelloids by Response Surface Methodology. *Braz. J. Pharmacogn.* 29:254–261, doi: <https://doi.org/10.1016/j.bjp.2019.01.001>.
- Moreira, J., Machado, M., Dias-Teixeira, M., Ferraz, R., Delerue-Matos, C., & Grosso, C., 2023, The Neuroprotective Effect of Traditional Chinese Medicinal Plants—A Critical Review, *Acta Pharmaceutica Sinica B.*, doi: <https://doi.org/10.1016/j.apsb.2023.06.009>.
- Munteanu, I.G., & Apetrei, C., 2021, Analytical Methods Used in Determining Antioxidant Activity: A Review, *International Journal of Molecular Sciences*, 22(7), 3380, doi: <https://doi.org/10.3390/ijms22073380>.
- Neha, K., Haider, M.R., Pathak, A., & Yar, M.S., 2019, Medicinal Prospects of Antioxidants: A Review, *European Journal of Medicinal Chemistry*, 178, 687–704, doi: <https://doi.org/10.1016/j.ejmech.2019.06.010>.
- Novianty, H., & Herandarudewi, S.M.C., 2018, The Effect of Sea-Water and Fresh-Water Soaking on The Hedonic Test of *Eucheuma* sp. Syrup and Pudding. In *IOP Conference Series: Earth and Environmental Science*, 137(1), p. 012090, IOP Publishing, doi: <http://dx.doi.org/10.1088/1755-1315/137/1/012090>.
- Olas, B., 2020, Honey and its Phenolic Compounds as an Effective Natural Medicine for Cardiovascular Diseases in Humans?, *Nutrients*, 12(2), 283, doi: <https://doi.org/10.3390/nu12020283>.
- Olayemi, O.J., John-Africa, L.B., Chikwendu, C.B., & Isimi, C.Y., 2020, Preliminary Evaluation of The Physicochemical and Antiplasmodial Properties of Syrup Formulations Containing The Aqueous Root Extract of

Nauclea latifolia (Rubiaceae), *Saudi Journal of Medical and Pharmaceutical Sciences*, 6, 541-547, doi: <https://doi.org/10.36348/sjumps.2020.v06i08.005>.

Oppedisano, F., Maiuolo, J., Gliozzi, M., Musolino, V., Carresi, C., Nucera, S., Scicchitano, M., Scarano, F., Bosco, F., Macrì, R., Ruga, S., Zito, M. C., Palma, E., Muscoli, C., & Mollace, V., 2020, The Potential for Natural Antioxidant Supplementation in the Early Stages of Neurodegenerative Disorders, *International Journal of Molecular Sciences*, 21(7), 2618, doi: <https://doi.org/10.3390/ijms21072618>.

Oroian, M., & Escriche, I., 2015, Antioxidants: Characterization, Natural Sources, Extraction and Analysis, *Food Research International*, 74, 10-36, doi: <https://doi.org/10.1016/j.foodres.2015.04.018>.

Oxtoby, D.W., Gillis, H.P. & Nachtrieb, N.H., 2001, *Prinsip – Prinsip Kimia Modern*, diterjemahkan oleh Suminar Setiati, Jilid I, Erlangga, Jakarta.

Ozuna, C., Trueba-Vázquez, E., Moraga, G., Llorca, E., & Hernando, I., 2020, Agave Syrup as an Alternative to Sucrose in Muffins: Impacts on Rheological, Microstructural, Physical, and Sensorial Properties, *Foods*, 9(7), 895, doi: <https://doi.org/10.1016/j.lwt.2022.113434>.

Patil, A.G., Mirajakar, K.J., Savekar, P.L., Bugaditkattikar, C.V., & Shintre, S.S., 2020, Formulation and Evaluation of Ginger Macerated Honey Base Herbal Cough Syrup, *International Journal of Innovative Science and Research Technology*, 5(6), 582-588, doi: <http://dx.doi.org/10.38124/IJISRT20JUN334>.

Patricia, V.M., & Syaputri, F.N., 2021, February, Antioxidant Activities from Two Varieties of Pear Peel Extracts using DPPH and CUPRAC Methods. In *Journal of Physics: Conference Series*, 1764(1), 012013, doi: <http://dx.doi.org/10.1088/1742-6596/1764/1/012013>.

Pertiwi, R.D., Suwaldi, M.R., & Setyowati, E.P., 2020, Radical Scavenging Activity and Quercetin Content of *Muntingia calabura* L. Leaves Extracted by Various Ethanol Concentration, *Journal of Food and Pharmaceutical Sciences*, 8(1), 174-84, doi: <https://doi.org/10.22146/jfps.581>.

Peteliuk, V., Rybchuk, L., Bayliak, M., Storey, K.B., & Lushchak, O., 2021, Natural Sweetener *Stevia rebaudiana*: Functionalities, Health Benefits and Potential Risks, *EXCLI Journal*, 20:1412-1430, doi: 10.17179/excli2021-4211.

Pittella, F., Dutra, R.C., Junior, D.D., Lopes, M.T.P., & Barbosa, N.R., 2009, Antioxidant and Cytotoxic Activities of *Centella asiatica* (L) *Int. J. Mol. Sci*, 10:3713–3721, doi: <https://doi.org/10.3390/ijms10093713>.

- Powthong, P., & Suntornthiticharoen, P., 2023, Comparative Analysis of Antioxidant, Antimicrobial, and Tyrosinase Inhibitory Activities of *Centella asiatica* (L.) Urb and *Eichhornia crassipes* (mart.) Solms., *Journal of Medical Pharmaceutical and Allied Cciences*, 12 (4), 5931 – 5938, doi: <https://doi.org/10.55522/jmpas.V12I4.5082>.
- Purnomo, H. & Syamsul, E.S., 2017, *Statistika Farmasi*, CV. Grafika Indah, Yogyakarta.
- Rahmasari, F.S., 2023, Optimasi Formula dan Uji Aktivitas Antioksidan Sediaan Gummy Candy Ekstrak Bunga Krisan (*Chrysanthemum indicum* L.) dengan Variasi Komposisi *Gelling Agent* Gelatin-Pektin, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Ramli, S., Xian, W.J., & Abd Mutalib, N.A., 2020, A Review: Antibacterial Activities, Antioxidant Properties and Toxicity Profile of *Centella asiatica*. *EDUCATUM Journal of Science, Mathematics and Technology*, 7(1), 39-47, doi: <https://doi.org/10.37134/ejsmt.vol7.1.5.2020>.
- Rashid, M.H.O., Akter, M., Uddin, J., Islam, S., Rahman, M., Jahan, K., Sarker, M.R., & Sadik, G., 2023, Antioxidant, Cytotoxic, Antibacterial and Thrombolytic Activities of *Centella asiatica* L.: Possible Role of Phenolics and Flavonoids, *Clinical Phytoscience*, 9(1), 1-9, doi: <https://doi.org/10.1186/s40816-023-00353-8>.
- Rijai, H. R., Fakhrudin, N., & Wahyuono, S., 2019, Isolation and Identification of DPPH Radical (2, 2-diphenyl-1-pikrylhidrazyl) Scavenging Active Compound in Ethyl Acetat Fraction of Piper Acre Blume, *Majalah Obat Tradisional*, 24(3), 204-209, doi: <https://doi.org/10.22146/mot.48173>.
- Riswahyuli, Y., Rohman, A., Setyabudi, F.M.C.S., & Raharjo, S., 2020, Characterization of Indonesia Wild honey and its Potential for Authentication and Origin Distinction. *Food Res*, 4(5), 1670-1680, doi: [https://doi.org/10.26656/fr.2017.4\(5\).105](https://doi.org/10.26656/fr.2017.4(5).105).
- Sambasivarao, A., Baru, C.S.R., & Reddy, M.H., 2016, Accelerated Stability Testing of Dosage Forms as per International Conference of Harmonization (ICH) Guidelines, *World J Pharm Med*, 2:99-103.
- Sánchez-Martínez, J.D., Valdés, A., Gallego, R., Suárez-Montenegro, Z.J., Alarcón, M., Ibañez, E., Alvarez-Rivera, G., & Cifuentes, A., 2022, Blood-Brain Barrier Permeability Study of Potential Neuroprotective Compounds Recovered From Plants and Agri-Food by-Products, *Frontiers in Nutrition*, 9, 924596, doi: <https://doi.org/10.3389/fnut.2022.924596>.

- Shao, Y., Sun, Y., Li, D., & Chen, Y., 2020, *Chrysanthemum indicum* L.: A Comprehensive Review of its Botany, Phytochemistry and Pharmacology. *The American journal of Chinese Medicine*, 48(4), 871–897, doi: <https://doi.org/10.1142/S0192415X20500421>.
- Sharma, V., Singh, S., Dixit, A., & Saxena, A., 2020, Formulation and Evaluation of Herbal Cough Syrup from Seeds Extract of Hedge Mustard, *International Journal of Research in Pharmacy and Chemistry*, 10(1), 56-69, doi: [https://dx.doi.org/10.33289/IJRPC.10.1.2020.10\(3\)](https://dx.doi.org/10.33289/IJRPC.10.1.2020.10(3)).
- Sheskey, P.J, Cook, W.G., & Cable, C.G., 2017, *Handbook of Pharmaceutical Excipient*, 8 th Ed., Pharmaceutical Press, London.
- Shin, H.Y., Kim, H., Jung, S., Jeong, E.J., Lee, K.H., Bae, Y.J., Suh, H.J., Jang, K.I. & Yu, K.W., 2021, Interrelationship Between Secondary Metabolites and Antioxidant Capacities of *Centella asiatica* Using Bivariate and Multivariate Correlation Analyses. *Appl Biol Chem* 64(1), 1-10, doi: <https://doi.org/10.1186/s13765-021-00656-9>.
- Sinaga, E.M., 2018, Optimasi *Xanthan Gum* dan Sukrosa pada Formulasi Sirup Fraksi Buah Mengkudu (*Morinda citrifolia* L.), *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.
- Solikhah, W.Y., Fatmawati, A., Gunawan, A., & Defri, A.Y., 2023, Qualitative Analysis and Determination of Total Flavonoid Content of Ethanolic Extract of Gotu Kola (*Centella asiatica*) with Variation of Solvent Concentrations, *Journal of Pharmaceutical and Sciences*, 6(2), 673–680. <https://doi.org/10.36490/journal-jps.com.v6i2.89>.
- Song, X., Tan, L., Wang, M., Ren, C., Guo, C., Yang, B., Ren, Y., Cao, Z., Li, Y., & Pei, J. (2021). Myricetin: A review of the most recent research. *Biomedicine & Pharmacotherapy*, 134, 111017, doi: <https://doi.org/10.1016/j.biopha.2020.111017>.
- Suranto, S., Hidayati, N.R., Furqan, M., Mahadjoeno, E., & Sajidan, S., 2023, Flavonoid Compound of *Cucurbita moschata* at Three Different Altitudes, *Biodiversitas Journal of Biological Diversity*, 24(3), doi: <https://doi.org/10.13057/biodiv/d240361>.
- Susanti, S., Kumoro, A.C., Suzery, M., & Oku, H., 2023, The Effect of Various Sweeteners on The Physical, Chemical, and Organoleptic Characteristics of Ginger Leaf Extract Syrup, *Food Research*, 7(2), 164-169, doi: [https://doi.org/10.26656/fr.2017.7\(2\).787](https://doi.org/10.26656/fr.2017.7(2).787).
- Syaifabila, I.M., 2023, Optimasi Formula dan Uji Aktivitas Antioksidan Sediaan *Gummy Candy* Ekstrak Herba Pegagan (*Centella asiatica* (L.) Urban) dengan

Variasi Basis Gelatin Sapi dan Pektin, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada, Yogyakarta.

Tandhanskul, A., Yasurin, P., Chavanon, P., Watanakijcharoenman, P., Sriariyanun, M., Rattanakom, S., & Lindayani, I., 2021, Utilization of RS-3 Rice Starch into Development of Food for Elderly: A Ready-to-mix Beverage Case. In *E3S Web of Conferences* (Vol. 302, p. 02003), EDP Sciences, doi: <http://dx.doi.org/10.1051/e3sconf/202130202003>.

Taurhesia, S., Rosdiana, D.N., & Pratami, D.K., 2024, The Formulation and test of antioxidant activity from serum gel of the extract *Chrysanthemum* flower (*Chrysanthemum Indicum* L.), *Journal of Natural Product for Degenerative Diseases*, 1(2), 57-65.

Wagner, H., & Bladt, S., 1996, *Plant Drug Analysis: a Thin Layer Chromatography Atlas*, Springer Science & Business Media, Germany.

Waksmundzka-Hajnos, M., Sherma, J., & Kowalska, T., 2008, *Thin Layer Chromatography in Phytochemistry*, CRC Press, Boca Raton.

Wutsqa, Y.U., Suratman, S., & Sari, S.L.A., 2021, Detection of Terpenoids and Steroids in *Lindsaea obtusa* with Thin Layer Chromatography, *Asian Journal of Natural Product Biochemistry*, 19(2), doi: <https://doi.org/10.13057/biofar/f190204>.

Yi, X., Akatvipat, A., Mongkolrat, N., Saenubol, P., Pornnimitara, P., & Boonyayatra, S., 2023, Analgesic and Anti-Inflammatory Effects of Oral *Centella asiatica* (L.) Urban Extract in Cats Undergoing Ovariohysterectomy, *Phytomedicine Plus*, 3(1), 100403, doi: <https://doi.org/10.1016/j.phyplu.2022.100403>.

Zaid, A.N., Abualhasan, M., Al-Masri, M., Jaradat, N., Ziada, I., Ayash, N., & Daowd, A., 2016, Extemporaneous Compounding and Stability Evaluation of Paracetamol-Honey Based Syrup for Pediatric Use, *Asian Journal of Pharmaceutics (AJP)*, 10(03).