

DAFTAR PUSTAKA

1. Morton CM, Telmer C. New Subfamily Classification for the Rutaceae CLASSIFICATION FOR THE. *BioOne Res Evolved*. 2014;99(4):620–41.
2. Karimi E, Oskoueian E, Hendra R, Oskoueian A, Jaafar HZE. Phenolic Compounds Characterization and Biological Activities of *Citrus aurantium* Bloom. *Molecules*. 2012;17:1203–18.
3. Zhao C, Wang F, Lian Y, Xiao H, Zheng J. Biosynthesis of citrus flavonoids and their health effects. *Crit Rev Food Sci Nutr* [Internet]. 2020;60(4):566–83. Available from: <https://doi.org/10.1080/10408398.2018.1544885>
4. Singanusong R, Nipornram S. Low Power Ultrasound-Assisted Extraction of Phenolic Compounds from Mandarin (*Citrus reticulata* Blanco cv . Sainampung) and Lime (*Citrus aurantifolia*) Peels and the Antioxidant. *Food Anal Methods*. 2014;8(5):1112–11123.
5. Singh B, Pal J, Kaur A, Singh N. Phenolic composition , antioxidant potential and health benefits of citrus peel. *Food Res Int* [Internet]. 2020;132(January):109114. Available from: <https://doi.org/10.1016/j.foodres.2020.109114>
6. Gmitter, G.F., Chen, C., Machado, A. M., de Souza, A. A., Ollitrault, P., Froehlicher, Y., Shimizu T. Citrus genomics. *Tree Genet Genomes*. 2012;8(3):611–26.
7. Narang N, Jiraungkoorskul W. Anticancer Activity of Key Lime , *Citrus aurantifolia*. *Pharmacogn Rev*. 2016;10(20):118.
8. Talon, M., Caruso, M., & Gemiter jr FG (Eds. . *The Genus Citrus*. Woodheat Publishing; 2020.
9. Domínguez-vigil IG, Antonio RCJ, Vargas- J, Abraham V, Fuente OR, Heredia-rodríguez O, et al. ANTI-GIARDIA ACTIVITY OF HEXANE EXTRACT OF CITRUS AURANTIFOLIA (CHRISTIM) SWINGLE AND SOME OF ITS CONSTITUENTS. *African J Tradit*. 2015;12(2):55–9.
10. Su H, Hogenhout SA, Al-sadi AM, Kuo C. Complete Chloroplast Genome Sequence of Omani Lime (*Citrus aurantiifolia*) and Comparative Analysis

within the Rosids. PLoS One. 2014;9(11).

11. Lv X, Zhao S, Ning Z, Zeng H, Shu Y, Tao O, et al. Citrus fruits as a treasure trove of active natural metabolites that potentially provide benefits for human health. *Chem Cent J*. 2015;1–14.
12. Li-Yun Lin., Cheng-Hung Chuang., Hsin-Chun Chen. K-M. Lime (*Citrus aurantifolia* (Christm.) Swingle) Essential Oils: Volatile Compounds, Antioxidant Capacity, and Hypolipidemic Effect. *Food*. 2019;8(9):398.
13. Pathan R, Gali PR, Pathan P, Gowtham T, Pasupuleti S. In vitro Antimicrobial Activity of *Citrus aurantifolia* and its Phytochemical screening. *Asian Pacific J Trop Dis* [Internet]. 2012;2:S328–31. Available from: [http://dx.doi.org/10.1016/S2222-1808\(12\)60176-5](http://dx.doi.org/10.1016/S2222-1808(12)60176-5)
14. Ibrahim FA, Usman LA, Akolade JO, Idowu OA, Abdulazeez AT, Amuzat AO, et al. Antidiabetic Potentials of *Citrus aurantifolia* Leaf Essential Oil. *Drug Res (Stuttg)*. 2018;69(4):201–6.
15. Lemes, R. S., Alves, C. C., Estevam, E. B., Santiago, M. B., Martins, C. H., SANTOS, T. C. D., ... & Miranda ML. Chemical composition and antibacterial activity of essential oils from *Citrus aurantifolia* leaves and fruit peel against oral pathogenic bacteria. *An Acad Bras Cienc*. 2018;90(2):1285–92.
16. Asmah N, Suniarti DF. Identification of active compounds in ethyl acetate , chloroform , and N-hexane extracts from peels of *Citrus aurantifolia* from Maribaya , West Java , Indonesia. *J Adv Pharm Technol Res*. 2020;107–12.
17. Patil, R. J., Jayaprakarsa, K. G., Kim, J., Murthy, C. N. K., Chetti, B. M., Nam, S., Patil SB. 5-Geranyloxy-7-Methoxycoumarin Inhibits Colon Cancer (SW480) Cells Growth by Inducing Apoptosis. *Planta Med*. 2013;79:219–26.
18. Sandoval-montemayor NE, García A, Elizondo-treviño E, Garza-gonzález E, Alvarez L, Camacho-corona MR. Chemical Composition of Hexane Extract of *Citrus aurantifolia* and Anti-*Mycobacterium tuberculosis* Activity of Some of Its Constituents. *Molecules*. 2012;17:11173–84.
19. Loizzo, M. R., Tundis, R., Bonesi, M., Menichini, Federica., De Luca, D., Colica, C. MF. Evaluation of *Citrus aurantifolia* peel and leaves extracts for their chemical composition , antioxidant and anti-cholinesterase activities Monica Rosa Loizzo , a Rosa Tundis , a * Marco Bonesi , a Federica Menichini , b. *Sci Food Agric*. 2012;92:2960–7.

20. Acheampong DO, Barffour IK, Boye A, Asiamah EA, Armah FA, Adokoh CK, et al. Histoprotective Effect of Essential Oil from *Citrus aurantifolia* in Testosterone-Induced Benign Prostatic Hyperplasia Rat. *Adv Urol*. 2019;2019.
21. Al-aamri MS, Pharm B, Al-abousi NM, Pharm B, Al-jabri SS, Pharm B, et al. Chemical composition and in-vitro antioxidant and antimicrobial activity of the essential oil of *Citrus aurantifolia* L. leaves grown in Eastern Oman. *J Taibah Univ Med Sci* [Internet]. 2018;13(2):108–12. Available from: <https://doi.org/10.1016/j.jtumed.2017.12.002>
22. Kumari S, Pal H, Rani D, Kumar R. Industrial Crops & Products Phytotoxicity and cytotoxicity of *Citrus aurantiifolia* essential oil and its major constituents : Limonene and citral. *Ind Crop Prod* [Internet]. 2017;108(July):708–15. Available from: <http://dx.doi.org/10.1016/j.indcrop.2017.07.005>
23. Costa R, Bisignano C, Filocamo A, Grasso E, Occhiuto F. Antimicrobial activity and chemical composition of *Citrus aurantifolia* (Christm .) Swingle essential oil from Italian organic crops. *J Essent Oil Res*. 2014;26(6):400–8.
24. Sarma R, Adhikari K, Mahanta S, Khanikor B. Insecticidal activities of *Citrus aurantifolia* essential oil against *Aedes aegypti* (Diptera : Culicidae). *Toxicol Reports* [Internet]. 2019;6(August):1091–6. Available from: <https://doi.org/10.1016/j.toxrep.2019.10.009>
25. Chetti MB, Patil BS. Characterization of *Citrus aurantifolia* bioactive compounds and their inhibition of human pancreatic cancer cells through apoptosis. *Microchem J* [Internet]. 2010;94(2):108–17. Available from: <http://dx.doi.org/10.1016/j.microc.2009.09.008>
26. Enejoh, Onyilofe S. et. all. Ethnomedical Importance of *Citrus Aurantifolia* (Christm) Swingle Ethnomedical Importance of *Citrus Aurantifolia*. *Pharma Innov J*. 2015;4(8):1–6.
27. Saraf S. Textbook of oral pathology. Jeypee Brother. 2012;2006:234.
28. Apraj V, Thakur N, Bhagwat A, Mallya R, Sawant L. Pharmacognostic and Phytochemical Evaluation of *Citrus aurantifolia* (Christm) Swingle PEEL. *Pharmacogn J*. 2011;3(26):70–6.
29. Patil J. Studies on isolation characterization of bioactive compounds in lime [*Citrus aurantifolia* (Christm) Swingle], their antioxidant and anticancer properties. Dr Diss UAS Dharwad. 2009;

30. Asnaashari, S., Delazar, A., Habibi, B., Vasfi, R., Nahar, L., Hamedeyazdan, S., & Sarker SD. Essential Oil from *Citrus aurantifolia* prevents ketotifen-induced weight-gain in mice. *Phyther Res.* 2010;24(12):1893–7.
31. Ghosh R, Hoque N, Shanta MA, Nasrin N, Asaduzzaman M. Antioxidant , Antimicrobial and Cytotoxic Activities of Different Fractions of *Citrus aurantifolia* Peel. *Pharm Sci.* 2020;19(2):161–8.
32. Kunow MA. *Maya medicine: traditional healing in Yucatan.* UNM Press; 2003.
33. Aibinu, I., Adenipekun, T., Adelowotan, T., Ogunsanya, T., Odugbemi T. EVALUATION OF THE ANTIMICROBIAL PROPERTIES OF DIFFERENT PARTS OF CITRUS. *Afr J Trad CAM.* 2007;4(2):185–90.
34. Roy D, Rahman AHMM. Systematic study and medicinal uses of Rutaceae family of Rajshahi district , Bangladesh. *Plant Environ Dev.* 2016;5(1):26–32.
35. Shitan N. Secondary metabolites in plants : transport and self-tolerance mechanisms. *Biosci Biotechnol Biochem* [Internet]. 2016;80(7):1284–94. Available from: <http://dx.doi.org/10.1080/09168451.2016.1151344>
36. Costa, T. D. S. A., Vieira, R. F., Bizzo, H. R., Silveira, D., & Gimenes MA. Secondary metabolites. *Embrapa Agroindústria de Alimentos-Capítulo em livro científico (ALICE).*
37. Roze, L., Chandra, A., & Linz J. COMPARTMENTALIZATION AND MOLECULAR TRAFFIC IN SECONDARY METABOLITISM: A NEW UNDERSTANDING OF ESTABLISHED CELLULAR PEOCESSES. *Fungal Genet Biol.* 2011;48(1):1–9.
38. Ferreira LE, Benincasa BI, Fachin AL, Helena S, Contini T, França SC, et al. Essential oils of *Citrus aurantifolia* , *Anthemis nobile* and *Lavandula officinalis* : in vitro anthelmintic activities against *Haemonchus contortus*. *Parasit Vectors.* 2018;11:1–9.
39. Taur, D. J., Kulkarni, V. B., Patil, R. Y. & PRN. Anthelmintic activity of *Ocimum sanctum* and *Citrus aurantifolia* oils. *pharmacologyonline.* 2009;3:459–99.
40. Hameed, R. H., Shareefi, E. A., & Hameed IH. Analysis of methanolic fruit extract of *Citrus aurantifolia* using gas chromatography-mass spectrum and FT-IR techniques and evaluation of its anti-bacterial activity. *Indian J Public Heal*

Res Dev. 2018;9(5):480–6.

41. Lesani A, Kazemnejad S, Moghimi Zand M, Azadi M, Jafari H, Mofrad MRK, et al. Quantification of human sperm concentration using machine learning-based spectrophotometry. *Comput Biol Med* [Internet]. 2020;127:104061. Available from: <https://doi.org/10.1016/j.compbiomed.2020.104061>
42. Etebong E, Ubulom P, Etuk A. Antiplasmodial activity of methanol leaf extract of *Citrus aurantifolia* (Christm) Swingle. *J Herbmed Pharmacol Antiplasmodial*. 2019;8(4):274–80.
43. Boshtam M, Moshtaghian J, Naderi G, Asgary S, Nayeri H. Antioxidant effects of *Citrus aurantifolia* (Christm) juice and peel extract on LDL oxidation. *J Res Med Sci*. 2011;16(7):951–5.
44. Kemenkes.RI. Pusdatin Hipertensi. *Infodatin* [Internet]. 2014;(Hipertensi):1–7. Available from: https://www.google.co.id/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjIzfdJsYPKAhVSA44KHUmSDasQFggZMAA&url=http://www.depkes.go.id/download.php?file=download/pusdatin/infodatin/infodatin-hipertensi.pdf&usg=AFQjCNHWLiHieCeL1Ksg4Tr_yx
45. Nur S, Othman A, Hassan MA, Nahar L, Basar N, Jamil S, et al. Essential Oils from the Malaysian Citrus (*Rutaceae*) Medicinal Plants. *medicines*. 2016;3(13):1–11.
46. christianson2017(1).pdf.
47. Block AK, Vaughan MM, Schmelz A, Christensen SA. Biosynthesis and function of terpenoid defense compounds in maize (*Zea mays*). *Planta*. 2018;
48. Vavitsas, K., Fabris, M., Vickers CE. Terpenoid Metabolic Engineering in. *Genes* (Basel). 2018;9:520.
49. Tholl D. Biosynthesis and Biological Functions of Terpenoids in Plants. *Adv Biochem Eng Biotechnol*. 2015;148:63–106.
50. Valitova JN, Sulkarnayeva AG, Minibayeva F V. Plant Sterols : Diversity , Biosynthesis , and Physiological Functions. *Biochemistry*. 2016;81(8):1050–68.
51. Sawai, S., Saito K. Triterpenoid biosynthesis and engineering in plants. *Forties Plant Sci*. 2011;2(25):1–8.

52. Cheynier V. Phenolic compounds: from plants to foods. *Phytochem Rev.* 2012;(1962).
53. Rafiq R. Biosynthesis of PP Biosynthesis and Regulation of Phenylpropanoids. *CRC Crit Rev Plant Sci.* 2017;36(4):257–90.
54. Petruzza E, Braidot E, Zancani M, Peresson C, Bertolini A, Patui S, et al. Plant Flavonoids — Biosynthesis , Transport and Involvement in Stress Responses. *Int J Mol Sci.* 2013;14950–73.
55. Tohge, T., de Souza, L. P., & Fernie AR. Current Understanding Of The Parhways Of Flavonoid In Model And Crop Plans. *J Exp Bot.* 2017;68(15):4013–1247.
56. Jaakola, L., & Hohtola A. Effect of latitude on flavonoid biosynthrsis. *Plant, cell environment.* 2010;33(8):1239–47.
57. Lichman BR. Natural Product Reports The sca ff old-forming steps of plant alkaloid biosynthesis. *R Soc Chem.* 2021;103–29.
58. Azwanida NN. Medicinal & Aromatic Plants A Review on the Extraction Methods Use in Medicinal Plants , Principle , Strength and Limitation. *Med Aromat Plants.* 2015;4(3):3–8.
59. Julianto TS. FITOKIMIA Tinhuan Metabolit Sekunder Dan Skrining Fitokimia Cetakan I. Yogyakarta: Universitas Islam Indonesia; 2019.
60. De Silva, G. O., Abeysundara, A. T., & Apanso MMW. Extraction Method, Qualitative And Quantitative Techniques For Screening Of Phytochemicals From Plans. *Am J Essent Oils Nat Prod.* 2017;5(2):29–32.
61. Maran JP. Ultrasound assisted extraction of bioactive compounds from *Nephelium lappaceum* L . fruit peel using central composite face centered response surface design. *Arab J Chem* [Internet]. 2017;10:S1145–57. Available from: <http://dx.doi.org/10.1016/j.arabjc.2013.02.007>
62. Nadar, S. S., Rao, P., Rathod K V. Enzyme assisted extraction of biomolecules as an approach to novel extraction technology: A review. *Food Res Int.* 2018;
63. Picollo, M., Aceto, M., Vitorino T. UV-Vis spectroscopy. *Phys Sci Rev.* 2018;1–14.
64. Marwati., Taebe, B., Tandilolo, A., Nur S. Pengaruh Tempat Tumbuh dan Profil

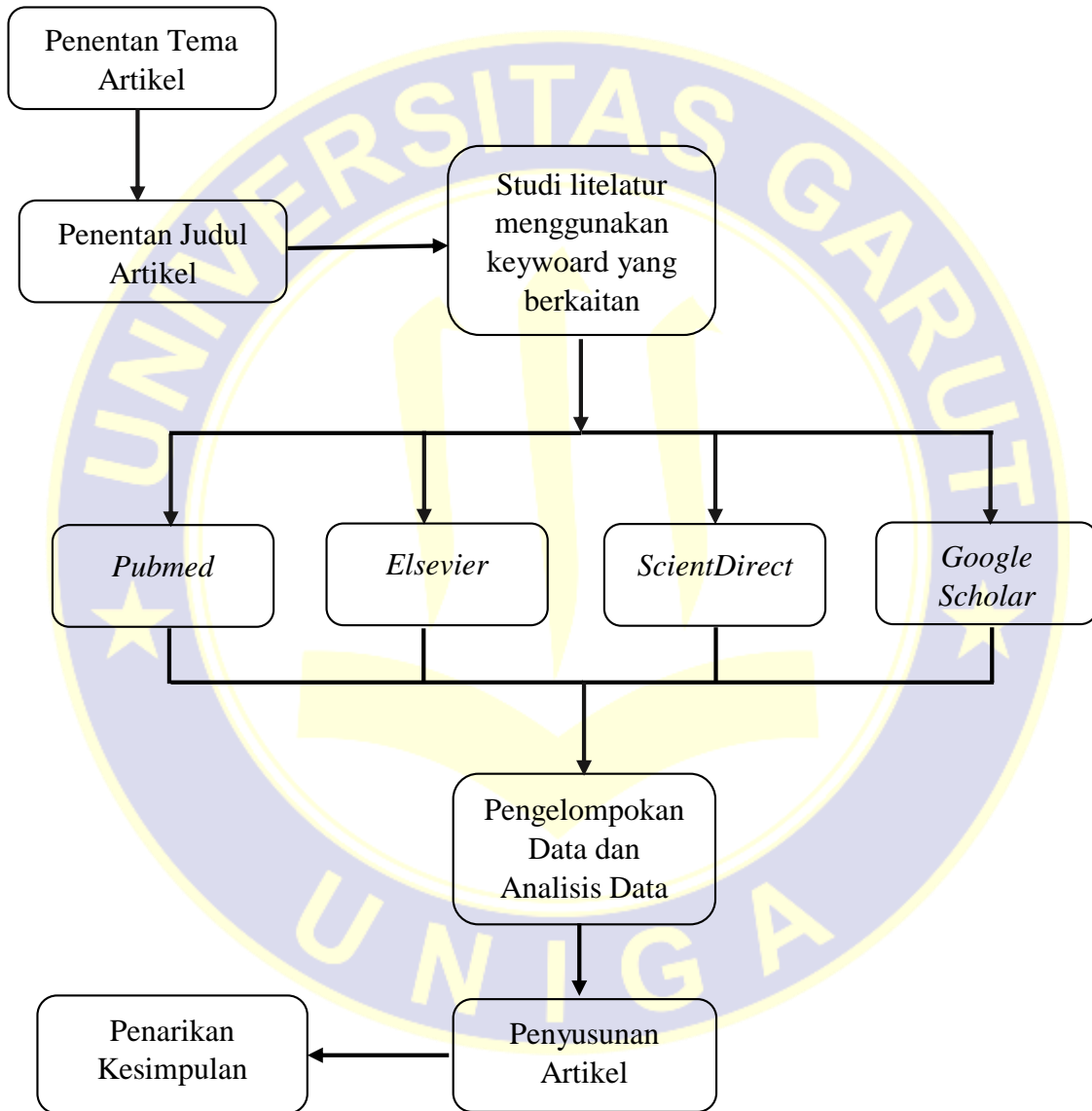
Kandungan Kimia Minyak Atsiri dari Rimpang Jahe Merah (*Zingiber officinale* Linn. Var *rubrum*). *J Sains dan Kesehat.* 2021;3(2):248–54.

65. Rohmawati S. UJI AKTIVITAS ANTIOKSIDAN EKSTRAK METANOL UMBI KIMPUL (*Xanthosomasagittifolium* (L.) Schott) PADA VARIASIKETINGGIAN DIKABUPATEN KLATEN TERHADAP DPPH (2,2-Diphenyl-1-Picrylhydrazyl. 2013;



LAMPIRAN I

SKEMA ARTIKEL *REVIEW*



DAFTAR RIWAYAT HIDUP

Nama : Hajarani Fathimatuzziharah Nur Qolab
Tempat, Tanggal lahir : Garut, 21 April 2000
Agama : Islam
Warga : Indonesia
Status : Belum Menikah
Alamat : Kp. Kudang RT 01 RW 05, Desa Wanajaya,
Kecamatan Wanaraja, Kabupaten Garut
No. Telepon : 089624636660
Email : hajarani.f27@gmail.com

PENDIDIKAN

Universitas Garut (2017-2021)

➤ **Pelatihan dan Kegiatan**

- Pelatihan Bela Negara
- Latihan Kepemimpinan Mahasiswa Farmasi
- Lembaga Dakwah Kampus
- PKL di PT. Berkah Alam Nusantara, Garut
- PKL di Apotek Assyifa, Garut
- Pelatihan Kimia *Atomic Absorption Spectrophotometer (AAS)* dan *Fourier Transform Infra Red (FTIR)*