

DAFTAR PUSTAKA

1. Agoes, G. *Sediaan Farmasi Industri – 9 : Sediaan Kosmetik*. (Penerbit ITB, 2015).
2. Burgess, C. M. *Cosmetic dermatology. Cosmetic Dermatology* (2005). doi:10.1007/b138930.
3. Program, N. T. Hydroquinone: Supporting information for Toxicological Evaluation. *Analysis* 1–49 (2009).
4. Hindun, S., Rusdiana, T., Abdasah, M. & Hindritiani, R. POTENSI LIMBAH KULIT JERUK NIPIS (*Citrus auronfolia*) SEBAGAI INHIBITOR TIROSINASE. *Indones. J. Pharm. Sci. Technol.* **4**, 64 (2017).
5. Erwiyani, A. R., Martodihardjo, S. & Lukitaningsih, E. Antioxidant activity of dried strawberry juices (*Fragaria Vesca L.*) emulgel preparation using candlenut oil and it's diffusion. *Indones. J. Pharm.* **27**, 145–151 (2016).
6. Wuttisin, N., Boonmak, J., Thaipitak, V., Thitilertdecha, N. & Kittigowittana, K. Anti-tyrosinase activity of orange peel extract and cosmetic formulation. *Int. Food Res. J.* **24**, 2128–2132 (2017).
7. Huang, Y. C., Liu, K. C. & Chiou, Y. L. Melanogenesis of murine melanoma cells induced by hesperetin, a Citrus hydrolysate-derived flavonoid. *Food Chem. Toxicol.* **50**, 653–659 (2012).
8. Wei, D. Tyrosinase inhibitory effects and inhibition mechanisms of nobiletin and hesperidin from citrus peel crude extracts. **22**, 83–90 (2007).
9. Zhu, W. & Gao, J. The use of botanical extracts as topical skin-lightening

- agents for the improvement of skin pigmentation disorders. *J. Investig. Dermatology Symp. Proc.* **13**, 20–24 (2008).
10. Wolfe, K., Wu, X. & Liu, R. H. Antioxidant activity of apple peels. *J. Agric. Food Chem.* **51**, 609–614 (2003).
 11. Doryanizadeh, M., Ghasemnezhad, M. & Sabouri, A. Estimation of Postharvest Quality of “Red Delicious” Apple Fruits Based on Fruit Nutrient Elements Composition. *J. Agric. Sci.* **9**, 164 (2016).
 12. Dispersion, S. & Skendrovi, M. Peel of Traditional Apple Varieties as a Great Source of Bioactive Compounds : Extraction by Micro-Matrix. 4–6 (2020).
 13. Yuri, J. A. *et al.* Total phenol and quercetin content and antioxidant activity in apples in response to thermal, light stress and to organic management. *J. Appl. Bot. Food Qual.* **87**, 131–138 (2014).
 14. Cs, P., Devi, S. S., W, J. S. & Rani, C. V. D. Nutritional properties of papaya peel. **6**, 170–173 (2017).
 15. Cueto, M. Antioxidant characterization of new dietary fiber concentrates from papaya pulp and peel (*Carica papaya* L .) concentrates from papaya pulp and peel (*Carica papaya* L .). *J. Funct. Foods* **27**, 319–328 (2016).
 16. Nieto, J., Cueto, M. & Farroni, A. Antioxidant characterization of new dietary fiber concentrates from papaya pulp and peel (*Carica papaya* L .). *J. Funct. Foods* **27**, 319–328 (2016).
 17. Gonçalves, J., Oliveira, D. & Pierre, A. Papaya : Nutritional and pharmacological characterization , and quality loss due to physiological

- disorders . An overview. *FRIN* **44**, 1306–1313 (2011).
18. Izzati, N., Binti, A. & Ramli, S. B. Original Research Article Determination of Total Phenolic Content , Antioxidant and Monophenolase Inhibition Activities of Carica papaya Peel Extracts in Solvents with Different Polarity. **1**, 16–25 (2020).
 19. Siddique, S., Nawaz, S., Muhammad, F., Akhtar, B. & Aslam, B. Phytochemical screening and in-vitro evaluation of pharmacological activities of peels of Musa sapientum and Carica papaya fruit. *Nat. Prod. Res.* **32**, 1333–1336 (2018).
 20. Martodihardjo, S. & Kuswahyuning, R. Emulgel Formulation of Musa paradisiaca L . Peels Formulasi Emulgel Kulit Buah Pisang Ambon (Musa paradisiaca L .). **7**, 97–106 (2019).
 21. Pereira, A. & Maraschin, M. Banana (Musa spp) from peel to pulp : Ethnopharmacology , source of bioactive compounds and its relevance for human health. *J. Ethnopharmacol.* **160**, 149–163 (2015).
 22. Phacharapiyangkul, N., Thirapanmethee, K., Sa-ngiamsuntorn, K. & Panich, U. Effect of Sucrier Banana Peel Extracts on Inhibition of Melanogenesis through the ERK Signaling Pathway. **16**, (2019).
 23. Said, K. A. M., Radzi, Z., Yakub, I. & Amin, M. A. M. Extraction and quantitative determination of ascorbic acid from banana peel Musa Acuminata ‘Kepok’ . *IIUM Eng. J.* **17**, 103–114 (2016).
 24. Toh, P. Y., Leong, F. S., Chang, S. K., Khoo, H. E. & Yim, H. S. OPTIMIZATION OF EXTRACTION PARAMETERS. (2016)

doi:10.17306/J.AFS.2016.1.7.

25. Azad, A. K., S, W. M. A. W. & Daud, N. A. Efficacy of Punica granatum L . based cosmeceutical products in improving hydration and skin color. **2**, 1–5 (2016).
26. Fawole, O. A., Makunga, N. P. & Opara, U. L. tyrosinase-inhibition activities of pomegranate fruit peel methanolic extract. 1–11 (2012).
27. Mphahlele, R. R., Fawole, O. A., Makunga, N. P. & Opara, U. L. Effect of drying on the bioactive compounds , antioxidant , antibacterial and antityrosinase activities of pomegranate peel. *BMC Complement. Altern. Med.* 1–12 (2016) doi:10.1186/s12906-016-1132-y.
28. Yoshimura, M., Watanabe, Y., Kasai, K. & Yamakoshi, J. Inhibitory Effect of an Ellagic Acid-Rich Pomegranate Extract on Tyrosinase Activity and Ultraviolet-Induced Pigmentation Inhibitory Effect of an Ellagic Acid-Rich Pomegranate Extract. **8451**, (2014).
29. (USDA), U. S. D. of A. Natural Resources Conservation Service. *United States Departements of Agriculture* <http://plants.usda.gov/> (2020).
30. Baskara, M. Pohon Apel itu masih (bisa) berbuah lebat. *Maj. Ilm. Pop. Bakosurtanal - Ekspedisi Geogr. Indones. 2010 Jawa Timur* 78–82 (2010).
31. Iriani, S. D. N. PERBANDINGAN KADAR PEKTIN DALAM KULIT DAN DAGING BUAH BEBERAPA KULTIVAR APEL HIJAU (Pyrus malus L.). (Universitas Sanata Dharma Yogyakarta, 2002).
32. Hardiyanto, H., Mujiarto, E. & Sulasmi, E. Kekerabatan Genetik Beberapa Spesies Jeruk Berdasarkan Taksonometri. *J. Hortik.* **17**, 98555 (2007).

33. Pamungkas, R. P. & Husamah, H. Pengaruh pemberian sari jeruk manis (*Citrus sinensis*) terhadap penurunan kadar kolesterol LDL didalam darah tikus putih (*Rattus norvegicus*) sebagai sumber belajar biologi. 217–220 (2020).
34. Sari, R. P. & Damayanty, A. E. Pemberian air perasan jeruk manis (*Citrus sinensis*) meningkatkan kadar LDL kolesterol serum. (Studi pada mahasiswa obese FK UMSU). *Artik. Penelit.* **1**, 92–101 (2018).
35. Ly, X. *et al.* Citrus fruits as a treasure trove of active natural metabolites that potentially provide benefits for human health. *Chem. Cent. J.* **9**, 1–14 (2015).
36. Putra, W. S. *Kitab Herbal Nusantara: Aneka Resep dan Ramuan Tanaman Obat Untuk Berbagai Gangguan Kesehatan.* (Yogyakarta Kata Hati, 2016).
37. Febjislami, S., Suketi, K. & Yunianti, R. Karakterisasi Morfologi Bunga, Buah, dan Kualitas Buah Tiga Genotipe Pepaya Hibrida. *Bul. Agrohorti* **6**, 112–119 (2018).
38. Kharisma, Y. Tinjauan Pemanfaatan Tanaman Pepaya dalam Kesehatan. *Lap. Penelit.* 902504 (2013).
39. Nisa, F. Z., Astuti, M., Haryana, S. M. & Murdiati, A. Antioxidant Activity and Total Flavonoid of *Carica papaya* L. Leaves with Different Varieties, Maturity and Solvent. *agriTECH* **39**, 54 (2019).
40. Persi. PISANG (Segudang Manfaat Dari Bonggol Sampai Ujung Pisang). (2012).
41. Andriani, V. Karakterisasi Anatomi Delima (*Punica granatum* L.). *Stigma*

- J. Sci.* **9**, 6–7 (2016).
42. Sudjijo. Sekilas Tanaman Delima dan Manfaatnya. *Iptek Hortik.* 40–3 (2014).
 43. Nurul Husna, Samingan, I. Isolasi dan Identifikasi Jamur Endofit pada Kulit Buah Delima Putih (*Punica granatum L.*). *J. Ilm. Mhs. Fak. Kegur. dan Ilmu Pendidik. Unsyiah* **2**, 49–58 (2017).
 44. Kumar, K. P. S., Bhowmik, D., Duraivel, S. & Umadevi, M. Traditional and Medicinal Uses of Banana. **1**, 51–63 (2012).
 45. Dimitris Rigopoulos, A. C. K. *Hyperpigmentation.* (CRC Press, 2018).
 46. J.B, H. *Metode Fitokimia.* (ITB, 1996).
 47. Chang, T. S. An updated review of tyrosinase inhibitors. *Int. J. Mol. Sci.* **10**, 2440–2475 (2009).
 48. Choi, M. H. & Shin, H. J. Anti-melanogenesis effect of quercetin. *Cosmetics* **3**, 1–16 (2016).
 49. Yamakoshi, J. U. N., Otsuka, F., Sano, A., Tokutake, S. & Saito, M. Lightening Effect on Ultraviolet-Induced Pigmentation of Guinea Pig Skin by Oral Administration of a Proanthocyanidin-Rich Extract from Grape Seeds. 629–638 (2003).
 50. Taylor, P. *et al.* Effects of α - and β -Arbutin on Activity of Tyrosinases from Mushroom and Mouse Melanoma Melanoma. 3–5 (2014) doi:10.1271/bbb.59.143.
 51. Shimogaki, H., Tanaka, Y., Tamai, H. & Masuda, M. In vitro and in vivo evaluation of ellagic acid on melanogenesis inhibition. **303**, 291–303

- (2000).
52. Jr, W. C. Q., Holstein, T. J., Dyckman, J., Mcdonald, C. J. & Isaacson, E. L. Inhibition of UVR-Induced Tanning and Immunosuppression by Topical Applications of Vitamins C and E to the Skin of Hairless (hr / hr) Mice 1. **8**, 89–98 (2000).
 53. Hollinger, J. C., Angra, K. & Halder, R. M. Are natural ingredients effective in the management of hyperpigmentation? A systematic review. *J. Clin. Aesthet. Dermatol.* **11**, 28–37 (2018).
 54. Burda, S., Oleszek, W. & Lee, C. Y. Phenolic Compounds and Their Changes in Apples during Maturation and Cold Storage. 945–948 (1990).
 55. Escarpa, A. & Gonzalez, M. C. High-performance liquid chromatography with diode-array detection for the determination of phenolic compounds in peel and pulp from different apple varieties. **823**, 331–337 (1998).
 56. Ju, Z., Yuan, Y., Liu, C., Zhan, S. & Wang, M. Relationships among simple phenol , flavonoid and anthocyanin in apple fruit peel at harvest and scald susceptibility. **5214**, (1996).
 57. Singh, B., Pal, J., Kaur, A. & Singh, N. Bioactive compounds in banana and their associated health benefits – A review. *Food Chem.* **206**, 1–11 (2016).
 58. Biology, P. Antioxidant properties of peels extracts from three varieties of banana (*Musa sp.*) grown in West Java-Indonesia. **25**, 57–64 (2018).
 59. Vardhan, A., Khan, S. & Pandey, B. SCREENING OF PLANT PARTS FOR ANTI-TYROSINASE ACTIVITY BY TYROSINASE ASSAY

USING MUSHROOM TYROSINASE. **4**, 134–139 (2014).

60. Yoon, K. N. *et al.* Antioxidant and antityrosinase activities of various extracts from the fruiting bodies of *Lentinus lepideus*. *Molecules* **16**, 2334–2347 (2011).



LAMPIRAN 1

GAMBAR BEBERAPA KULIT BUAH



Gambar 1. Kulit Apel (*Malus domestica*)



Gambar 2. Kulit Jeruk (*Citrus sinensis*)

**LAMPIRAN 1
(LANJUTAN)**

GAMBAR BEBERAPA KULIT BUAH



Gambar 3. Kulit Pepaya (*Carica papaya*)



Gambar 4. Kulit Pisang (*Musa paradisiaca* L.)

**LAMPIRAN 1
(LANJUTAN)**

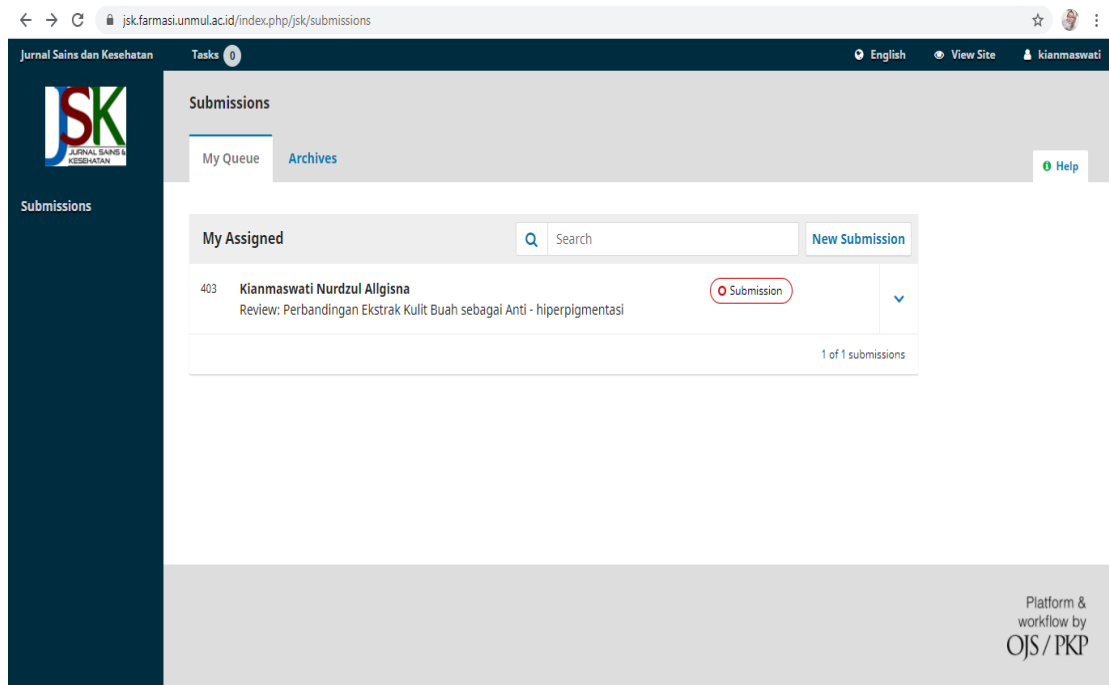
GAMBAR BEBERAPA KULIT BUAH



Gambar 5. Kulit Delima (*Punica granatum* L.)

LAMPIRAN 2

BUKTI SUBMIT REVIEW ARTIKEL



The screenshot displays a web browser window with the URL `jsk.farmasi.unmul.ac.id/index.php/jsk/submissions`. The page title is "Jurnal Sains dan Kesehatan". The user is logged in as "kianmaswati". The main content area is titled "Submissions" and includes tabs for "My Queue" and "Archives". A "Help" button is visible in the top right. Below the tabs, there is a "My Assigned" section with a search bar and a "New Submission" button. A table lists one submission:

ID	Author	Title	Status	Actions
403	Kianmaswati Nurdzul Allgisna	Review: Perbandingan Ekstrak Kulit Buah sebagai Anti - hiperpigmentasi	Submission	▼

At the bottom right of the page, it says "Platform & workflow by OJS/PKP".

Gambar 6. Bukti Submit Artikel *Review*

Daftar Riwayat Hidup



Kianmaswati Nurdzul Allgisna lahir di kota Garut pada tanggal 21 Maret tahun 1999. Penulis lahir dari pasangan Kadar Wilasmana, M.Si. dan Ai Agustina, S.Pd. Penulis merupakan anak pertama dari dua bersaudara yaitu Kianmaswati Nurdzul Allgisna, S.Farm dan Shantang Adhii Musyari Wibagjaya Gustana. Pada tahun 2007 penulis masuk ke Sekolah Dasar Negeri (SDN) Keresek III Cibatu dan lulus tahun 2010 di SDN Keresek III Cibatu. Kemudian melanjutkan sekolah menengah pertama (SMP) pada tahun yang sama di SMPN 1 Cibatu dan lulus tiga tahun kemudian pada tahun 2013. Selanjutnya masuk sekolah menengah atas (SMA) di SMA Negeri 3 Garut dan lulus pada tahun 2016.

Pada tahun yang sama, penulis diterima menjadi mahasiswi Jurusan Farmasi Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Garut melalui jalur PMDK. Berkat ketekunan, motivasi tinggi untuk terus belajar dan berusaha serta dukungan dari orang sekitar, penulis telah berhasil menyelesaikan pengerjaan tugas akhir skripsi ini yang berjudul **“Review: Perbandingan Beberapa Ekstrak Kulit Buah sebagai Antihiperpigmentasi”**.

Pada tanggal 23 Februari 2021 penulis dinyatakan lulus dan berhak menyandang gelar Sarjana Farmasi setelah melalui proses seminar usulan proposal, seminar hasil *review*, CBT dan sidang komprehensif Jurusan Farmasi Fakultas MIPA Universitas Garut dengan menempuh studi di bangku perkuliahan selama 4 tahun.

Akhir kata penulis mengucapkan rasa syukur yang sebesar-besarnya atas terselesaikannya skripsi ini. Semoga dengan penulisan tugas akhir skripsi ini mampu memberikan kontribusi positif bagi dunia pendidikan khususnya dalam bidang kesehatan.