REFERENCES

Agbor, G. A., Vinson, J. A. and Donnelly, P. E. (2014) 'Folin-Ciocalteau Reagent for Polyphenolic Assay', *International Journal of Food Science, Nutrition and Dietetics*, (August), pp. 147–156. doi: 10.19070/2326-3350-1400028.

Ahmad, I., Mehmood, Z. and Mohammad, F. (1998) 'Screening of some Indian medicinal plants for their antimicrobial properties', *Journal of Ethnopharmacology*, 62(2), pp. 183–193. doi: 10.1016/S0378-8741(98)00055-5.

Almeida, M. M. B. *et al.* (2011) 'Bioactive compounds and antioxidant activity of fresh exotic fruits from northeastern Brazil', *Food Research International*, 44(7), pp. 2155–2159. doi: 10.1016/j.foodres.2011.03.051.

Altemimi, A. *et al.* (2017) 'Phytochemicals: Extraction, Isolation, and Identification of Bioactive Compounds from Plant Extracts', *Plants*, 6(42), pp. 1–23. doi: 10.5912/jcb722.

Amri, F. S. Al and Hossain, M. A. (2018) 'Comparison of total phenols, flavonoids and antioxidant potential of local and imported ripe bananas', *Egyptian Journal of Basic and Applied Sciences*. Mansoura University, 5(4), pp. 245–251. doi: 10.1016/j.ejbas.2018.09.002.

Andersen, O. M. and Markham, K. R. (2006) *Flavonoids: Chemistry, Biochemistry and Applications*, *Angewandte Chemie International Edition*. USA: Taylor & Francis. doi: 0-8493-2021-6.

Asada, T. and Tamura, H. (2012) 'Isolation of Bilberry Anthocyanidin 3-Glycosides Bearing ortho-Dihydroxyl Groups on the B Ring by Forming an Aluminum Complex and Their Antioxidant Activity', *Journal of Agricultural and Food Chemistry*. American Chemical Society, 60(42), pp. 10634–10640. doi: 10.1021/jf302476n.

Asgar, M. A. (2013) 'Anti-Diabetic Potential of Phenolic Compounds: A Review', *International Journal of Food Properties*, 16(1), pp. 91–103. doi: 10.1080/10942912.2011.595864.

Asmoro, J. (2014) 'Potensi Karbon Jenis Endemik Papua', *Forda-Mof.Org*, 8(4), pp. 299–305. Available at: http://forda-mof.org/files/5. Potensi (Jarot).pdf.

Awanis, D. *et al.* (2017) 'α -Glucosidase Inhibitory Activity of Selected Malaysian Plants', *Journal of Pharmacy and Bioallied Sciences*, 9(3), pp. 164–170.

Awouafack, M. D., Tane, P. and Morita, H. (2016) 'Isolation and Structure Characterization of Flavonoids', in *Flavonoids - From Biosynthesis to Human Health*, pp. 45–59. doi: http://dx.doi.org/10.5772/57353.

Azizah, D. N., Kumolowati, E. and Faramayuda, F. (2014) 'Penetapan Kadar Flavonoid Metode AlCl3 Pada Ekstrak Metanol Kulit Buah Kakao (*Theobroma cacao* L.)', *Kartika Jurnal Ilmiah Farmasi*, 2(2), pp. 45–49.

Azmir, J. *et al.* (2013) 'Techniques for extraction of bioactive compounds from plant materials: A review', *Journal of Food Engineering*. Elsevier Ltd, 117(4), pp. 426–436. doi: 10.1016/j.jfoodeng.2013.01.014.

Azwanida, N. (2015) 'A Review on the Extraction Methods Use in Medicinal Plants, Principle, Strength and Limitation', *Medicinal & Aromatic Plants*, 04(03), pp. 3–8. doi: 10.4172/2167-0412.1000196.

Baba, S. A. and Malik, S. A. (2014) ' Determination of total phenolic and flavonoid content, antimicrobial and antioxidant activity of a root extract of *Arisaema jacquemontii* Blume ', *Journal of Taibah University for Science*. Taibah University, 9(4), pp. 449–454. doi: 10.1016/j.jtusci.2014.11.001.

Bacon, K. *et al.* (2017) 'Evaluation of different solvents to extract antibacterial compounds from jalapeño peppers', *Food Science and Nutrition*, 5(3), pp. 497–503. doi: 10.1002/fsn3.423.

Bailey, C. N. (2015) *Separation and Identification of Bioactive Compounds from Oplopanax horridus*. Clemson University. Available at: https://tigerprints.clemson.edu/all_theses/2090.

Bandar, H. *et al.* (2013) 'Techniques for the Extraction of Bioactive Compounds from

Lebanese *Urtica dioica*', *American Journal of Phytomedicine and Clinical Therapeutics*, 1(6), pp. 507–513. doi: 10.4172/2157-7110.S1.020.

Barlow, S. M. (1990) 'Toxicological Aspects of Antioxidants Used as Food Additives', in *Food Antioxidants*. Springer, Dordrecht, pp. 253–307. doi: 10.1007/978-94-009-0753-9_7.

Berkem (2017) *Plant Extraction: the heart of Berkem's trade*. Available at: http://www.berkem.com/en/expertise-en/plant-extraction (Accessed: 5 June 2019).

Bhat, R. S. and Al-daihan, S. (2014) 'Antimicrobial activity of *Litchi chinensis* and *Nephelium lappaceum* aqueous seed extracts against some pathogenic bacterial strains', *Journal of King Saud University - Science*. King Saud University, 26(1), pp. 79–82. doi: 10.1016/j.jksus.2013.05.007.

Brewer, M. S. (2011) 'Natural Antioxidants: Sources, Compounds, Mechanisms of Action, and Potential Applications', *Comprehensive Reviews in Food Science and Food Safety*, 10(4), pp. 221–247. doi: 10.1111/j.1541-4337.2011.00156.x.

Cambie, R. C. and Ash, J. (1994) *Fijian Medicinal Plants*. Edited by M. Veroni and H. Kinniburgh. Australia: CSIRO Australia.

Cardoso, C. A. L. *et al.* (2013) 'Phenolic compounds and antioxidant, antimicrobial and antimycobacterial activities of *Serjania erecta* Radlk. (Sapindaceae)', *Brazilian Journal of Pharmaceutical Sciences*, 49(4). doi: http://dx.doi.org/10.1590/S1984-82502013000400017.

Chang, C. Y. *et al.* (1998) 'The Effect of Drying Treatment on the Flavor and Quality of Longan Fruit', in Contis, E. T. (ed.) *Food Flavors: Formation, Analysis and Packaging Influences*. Yuan, Republic of China: Elsevier Science B.V., pp. 353–367.

Cowan, M. M. (1999) 'Plant products as Antimicrobial Agents', *Clinical Microbiology Reviews*, 12(4), pp. 534–564. doi: http://cmr.asm.org/content/12/4/564.full.pdf.

Creuwels, J. (2019) *Taxonomic Distribution of Occurences*, *Naturalis Biodiversity Center (NL) - Botany*. doi: https://doi.org/10.15468/ib5ypt.

Cronin, G. *et al.* (1995) 'Effects of storage and extraction procedures on yields of lipophilic metabolites from the brown seaweeds *Dictyota ciliolata* and *D.menstrualis*', *Marine Ecology Progress Series*, 119(1–3), pp. 265–274.

Croteau, R., Kutchan, T. M. and Lewis, N. G. (2000) 'Natural Products (Secondary Metabolites)', in *Biochemistry and Molecular Biology of Plants, B. Buchanan, W. Gruissem, R. Jones, Eds.* Rockville, MD: American Society of Plant Physiologists, pp. 1250–1318. doi: 10.1201/b11003-3.

Deng, G. F. *et al.* (2012) 'Potential of fruit wastes as natural resources of bioactive compounds', *International Journal of Molecular Sciences*, 13(7), pp. 8308–8323. doi: 10.3390/ijms13078308.

Deng, M. *et al.* (2018) 'Effect of Storage Conditions on Phenolic Profiles and Antioxidant Activity of Litchi Pericarp', *Molecules*, 23(9), p. 2276. doi: 10.3390/molecules23092276.

El-aal, H. A. A. and Halaweish, F. T. (2012) 'Food Preservative Activity of Phenolic Compound in Orange Peel Extracts (*Citrus sinensis* L.)', *Lucrari Stiintifice*, 53(15), pp. 233–240.

Elya, B. *et al.* (2015) 'Antidiabetic Activity and Phytochemical Screening of Extracts from Indonesian Plants by Inhibition of Alpha Amylase, Alpha Glucosidase and Dipeptidyl Peptidase IV', *Pakistan Journal of Biological Sciences*, 18(6), pp. 273–278. doi: 10.3923/pjbs.2015.279.284.

Everette, J. D., Walker, R. B. and Islam, S. (2013) 'Inhibitory activity of naturally occurring compounds towards rat intestinal α-glucosidase using p-nitrophenyl-α-D-glucopyranoside (PNP-G) as a Substrate', *American Journal of Food Technology*, pp. 65–73. doi: 10.3923/ajft.2013.65.73.

Exner, M. *et al.* (2017) 'Antibiotic resistance: What is so special about multidrug-resistant Gram-negative bacteria?', *GMS Hygiene and Infection Control*, 12(5), pp. 1–24. doi: 10.3205/dgkh000290.

Faustina, F. C. (2013) *Major Components in Matoa Fruit Peel and The Antioxidant and Antimicrobial Activity of Its Extract*. Swiss German University.

Faustina, F. C. and Santoso, F. (2014) 'Extraction of Fruit Peels of *Pometia Pinnata* and Its Antioxidant and Antimicrobial Activities', *Journal Pascapanen*, 11(2), pp. 80–88.

Feng, C. Y. *et al.* (2017) 'The antioxidant activities of litchi pericarp among different cultivars', *IOP Conf. Series: Earth and Environmental Science*. doi: 10.1088/1755-1315/81/1/012012.

Fitri, A. (2015) *Identification of Phytochemical and Antioxidant Activity in Peel and Seed of Tropical Fruits from Indonesia*. Bogor Agricultural University.

Fitri, A. *et al.* (2016) 'Screening of Antioxidant Activities and Their Bioavailability of Tropical Fruit Byproducts from Indonesia', *International Journal of Pharmacy and Pharmaceutical Sciences*, 8(6), pp. 96–100.

Fitriansyah, S. N., Fidrianny, I. and Ruslan, K. (2017) 'Correlation of Total Phenolic, Flavonoid and Carotenoid Content of *Sesbania sesban* (L. Merr) Leaves Extract with DPPH Scavenging Activities', *International Journal of Pharmacognosy and Phytochemical Research*, 9(1), pp. 89–94. doi: 10.25258/ijpapr.v9il.8047.

Galili, S. and Hovav, R. (2014) *Determination of Polyphenols, Flavonoids, and Antioxidant Capacity in Dry Seeds*, *Polyphenols in Plants: Isolation, Purification and Extract Preparation*. Elsevier. doi: 10.1016/B978-0-12-397934-6.00016-4.

Ginovyan, M., Petrosyan, M. and Trchounian, A. (2017) 'Antimicrobial activity of some plant materials used in Armenian traditional medicine.', *BMC complementary and alternative medicine*. BMC Complementary and Alternative Medicine, 17(1), p. 50. doi: 10.1186/s12906-017-1573-y.

Harborne, J. B. and Williams, C. A. (2000) 'Review Advances in Favonoid research since 1992', *Phytochemistry*, 55, pp. 481–504. doi: 10.1016/S0031-9422(00)00235-1.

Heim, K. E., Tagliaferro, A. R. and Bobilya, D. J. (2002) 'Flavonoid antioxidants:

chemistry, metabolism and structure-activity relationships', *Journal of Nutritional Biochemistry*, 13, pp. 572–584. doi: 10.1016/S0955-2863(02)00208-5.

Hendrich, A. B. (2006) 'Flavonoid-membrane interactions: Possible consequences for biological effects of some polyphenolic compounds', *Acta Pharmacologica Sinica*, 27(1), pp. 27–40. doi: 10.1111/j.1745-7254.2006.00238.x.

Ho, C.-T. (1992) *Phenolic Compounds in Food and Their Effects on Health*. Washington, DC: American Chemical Society. doi: 10.1021/bk-1992-0506.ch001.

Huang, G.-J. *et al.* (2012) ' Antioxidant and Anti-Inflammatory Properties of Longan (*Dimocarpus longan* Lour.) Pericarp ', *Evidence-Based Complementary and Alternative Medicine*, 2012, pp. 1–10. doi: 10.1155/2012/709483.

Ieyama, T., Gunawan-Puteri, M. D. P. T. and Kawabata, J. (2011) 'α-Glucosidase inhibitors from the bulb of *Eleutherine americana*', *Food Chemistry*. Elsevier Ltd, 128(2), pp. 308–311. doi: 10.1016/j.foodchem.2011.03.021.

Inetfarm (2018) *About Matoa Fruit Plants*. Available at: http://inetfarms.com/matoa.php (Accessed: 22 November 2018).

International Tropical Fruits Network (2018) *Why are tropical fruits important?* Available at: http://www.itfnet.org/v1/tropical-fruit-info/ (Accessed: 9 December 2018).

Irawan, C. *et al.* (2017) 'Comparison of Total Phenolic Content in Seed, Flesh Fruit and Peel of *Pometia pinnata* from Indonesia', *Journal of Medicinal Plant Studies*, 5(4), pp. 163–165.

Irawan, C. *et al.* (2017) 'Evaluation of DPPH Free Radical Scavengin Activity of *Pometia pinnata* from Indonesia', *The Pharma Innovation Journal*, 6(8), pp. 403–406.

Irawan, C., Sulistiawaty, L. and Rochaeni, H. (2017) 'Phytochemistry and total phenolic content of methanol extract of *Pometia pinata* J. R. Forst. & G. Forst. fruit flesh from Papua, Indonesia', *Tropical Plant Research*, 4(3), pp. 401–404. doi: 10.22271/tpr.2017.v4.i3.053.

Ito, N. *et al.* (1986) 'Studies on antioxidants: Their carcinogenic and modifying effects on chemical carcinogenesis', *Food and Chemical Toxicology*, 24(10–11), pp. 1071–1082. doi: 10.1016/0278-6915(86)90291-7.

Jacobs, M. (1962) 'Pometia (Sapindaceae), A Study in Variability', pp. 109–144.

Jeong, S.-M. *et al.* (2004) 'Effect of Heat Treatment on the Antioxidant Activity of Extracts from Citrus Peels', *Journal of Agricultural and Food Chemistry*, 52(11), pp. 3389–3393.

Kawamura, F. *et al.* (2010) 'Evaluation on antioxidant activity, antifungal activity and total phenols of 11 selected commercial Malaysian timber species', *Japan Agricultural Research Quarterly*, 44(3), pp. 319–324. doi: 10.6090/jarq.44.319.

Klančnik, A. *et al.* (2010) 'Evaluation of diffusion and dilution methods to determine the antibacterial activity of plant extracts', *Journal of Microbiological Methods*, 81(2), pp. 121–126. doi: 10.1016/j.mimet.2010.02.004.

Kon, K. and Rai, M. (2016) *Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches*. Edited by L. Versteeg-buschman. Chennai: Academic Press.

Krisnawati, H. and Wahjono, D. (2003) 'Using Taper Model for Estimating Tree Stem Volume of Matoa (*Pometia pinnata* Forst.) in Halmahera, Maluku', *Forest Research Bulletin)*, 637(January 2003), pp. 11–24.

Kumar, S. *et al.* (2017) 'Effect of climate change on phytochemical diversity, total phenolic content and in vitro antioxidant activity of *Aloe vera* (L.) Burm.f.', *BMC Research Notes*. BioMed Central, 10(1), pp. 1–12. doi: 10.1186/s13104-017-2385-3.

Kumar, S. and Pandey, A. K. (2013) 'Chemistry and Biological Activities of Flavonoids: An Overview', *The Scientific World Journal*, 13(8), pp. 1220–1230. doi: 10.2174/1389557511313080008.

Lalitha, D. M. K. (2004) *Manual on Antimicrobial Susceptibility Testing*. Vellore, Tamil Nadu, India.

Lambert, R. J. W. and Pearson, J. (1999) 'Susceptibility testing: accurate and reproducible minimum inhibitory concentration (MIC) and non-inhibitory concentration (NIC) values', *Journal of Applied Microbiology*, 88, pp. 784–790. doi: 10.1046/j.1365-2672.2000.01017.x.

Latu, K. (2003) *Inhibition of the Fungus (Candida albicans) using an extract from Fiji Longan (Pometia pinnata)*. Bio 493.

Lemke, T. L. *et al.* (2008) *Foye's Principles of Medicinal Chemistry*. Sixth Edit. USA: Lippincott Williams & Wilkins.

Lense, O. (2012) 'The wild plants used as traditional medicines by indigenous people of Manokwari, West Papua', *Biodiversitas, Journal of Biological Diversity*, 13(2), pp. 98–106. doi: 10.13057/biodiv/d130208.

Leopold, J. A. (2015) 'Antioxidants and coronary artery disease: From pathophysiology to preventive therapy', *Coronary Artery Disease*, 26(2), pp. 176–183. doi: 10.1097/MCA.0000000000000187.

Li, M. and Xu, Z. (2008) 'Quercetin in a lotus leaves extract may be responsible for antibacterial activity', *Archives of Pharmacal Research*, 31(5), pp. 640–644. doi: 10.1007/s12272-001-1206-5.

Li, T. S. C. (2006) *Taiwanese Native Medicinal Plants: Phytopharmacolody and Therapeutic Values*. USA: Taylor & Francis.

Lu, Y., Khoo, T. J. and Wiart, C. (2014) 'Antioxidant Activity Determination of Citronellal and Crude Extracts of *Cymbopogon citratus* by 3 Different Methods', *Pharmacology & Pharmacy*, 5(5), pp. 395–400. doi: 10.1007/s11910-005-0054-8.

Lumintang, R. F., Wuisan, J. and Wowor, P. M. (2015) 'Uji Efek Analgesik Ekstrak Kulit Batang Pohon', *Journal E-Biomedik*, 3(2), pp. 3–8.

Mataputun, S. P., Rorong, J. A. and Pontoh, J. (2013) 'Aktivitas Inhibitor α - Glukosidase Ekstrak Kulit Batang Matoa (*Pometia pinnata*. Spp.) sebagai Agen Antihiperglikemik', *Jurnal Mipa Unsrat*, 2(2), pp. 119–123.

Mathew, S., Abraham, T. E. and Zakaria, Z. A. (2015) 'Reactivity of phenolic compounds towards free radicals under in vitro conditions', *Journal of Food Science and Technology*, 52(9), pp. 5790–5798. doi: 10.1007/s13197-014-1704-0.

Mistriyani, Riyanto, S. and Rohman, A. (2017) 'Antioxidant activities of Rambutan (*Nephelium lappaceum* L) peel in vitro', *Food Research*, 2(1), pp. 119–123. doi: 10.26656/fr.2017.2(1).150.

Mohammad, F. V. *et al.* (2010) 'A New Triterpenoid Saponin from The Stem Bark of *Pometia pinnata*', *Natural product communications*, 5(2), pp. 191–195. Available at: http://europepmc.org/abstract/MED/20334125.

Mohammad, F. V. *et al.* (2012) 'A New Monodesmosidic Triterpenoid Saponin from The Leaves of *Pometia pinnata*', *Natural Product Communications*, 7(11), pp. 1423–1426.

Mojzer, E. B. (2016) 'Polyphenols: Extraction Methods, Antioxidative Action, Bioavailability and Anticarcinogenic Effects', *Molecules*, 21(901), pp. 1–38. doi: 10.3390/molecules21070901.

Molaveisi, M. *et al.* (2019) 'Kinetics of temperature effect on antioxidant activity, phenolic compounds and color of Iranian jujube honey', *Heliyon*. Elsevier Ltd, 5(1), pp. 2–14. doi: 10.1016/j.heliyon.2019.e01129.

Muhtadi *et al.* (2014) 'Antioxidant Activity and Chemical Constituents of Some Indonesian Fruit Peels', *Medicinal Plants*, 6(1), pp. 43–46. doi: 10.5958/j.0975-6892.6.1.006.

Mukaka, M. M. (2012) 'Statistics Corner: A guide to appropriate use of Correlation coefficient in medical research', *Malawi Medical Journal*, 24(3), pp. 69–71. doi: 10.1016/j.cmpb.2016.01.020.

Murov, D. S. L. (2018) *Properties of Solvents Used in Organic Chemistry*. Available at: http://murov.info/orgsolvents.htm#TABLE 2 (Accessed: 5 June 2019).

Naczk, M. and Shahidi, F. (2006) 'Phenolics in cereals, fruits and vegetables:

Occurrence, extraction and analysis', *Journal of Pharmaceutical and Biomedical Analysis*, 41(5), pp. 1523–1542. doi: 10.1016/j.jpba.2006.04.002.

Natarajan, D. *et al.* (2005) 'Anti-bacterial activity of *Euphorbia fusiformis* - A rare medicinal herb', *Journal of Ethnopharmacology*, 102(1), pp. 123–126. doi: 10.1016/j.jep.2005.04.023.

National Center for Biotechnology Information (2019) *Acarbose*, *PubChem Database*. Available at: https://pubchem.ncbi.nlm.nih.gov/compound/Acarbose (Accessed: 21 June 2019).

National Center for Biotechnology Information (2019) *Miglitol*, *PubChem Database*. Available at: https://pubchem.ncbi.nlm.nih.gov/compound/Miglitol (Accessed: 21 June 2019).

National Center for Biotechnology Information (2019) *Voglibose*, *PubChem Database*. Available at: https://pubchem.ncbi.nlm.nih.gov/compound/Voglibose (Accessed: 21 June 2019).

National Parks Board (2018) *Pometia pinnata J.R. Forst & G. Forst*. Available at: https://florafaunaweb.nparks.gov.sg/Special-Pages/plant-detail.aspx?id=3084 (Accessed: 19 November 2018).

Ncube, B., Finnie, J. F. and Van Staden, J. (2012) 'Quality from the field: The impact of environmental factors as quality determinants in medicinal plants', *South African Journal of Botany*. South African Association of Botanists, 82, pp. 11–20. doi: 10.1016/j.sajb.2012.05.009.

Ngajow, M., Abidjulu, J. and Kamu, V. S. (2013) 'Pengaruh Antibakteri Ekstrak Kulit Batang Matoa (*Pometia pinnata*) terhadap Bakteri *Staphylococcus aureus* secara In vitro', *Jurnal Mipa Unsrat*, 2(2), pp. 128–132.

Padda, M. S. and Picha, D. H. (2008) 'Effect of low temperature storage on phenolic composition and antioxidant activity of sweetpotatoes', *Postharvest Biology and Technology*, 47(2), pp. 176–180. doi: 10.1016/j.postharvbio.2007.06.014.

Pallab, K. *et al.* (2013) 'Estimation of Total Flavonoids Content (TFC) and Antioxidant Activities of Methanolic Whole Plant Extract of *Biophytum Sensitivum* Linn', *Journal of Drug Delivery & Therapeutics*, 3(4), pp. 33–37.

Panche, A. N., Diwan, A. D. and Chandra, S. R. (2016) 'Flavonoids: an overview', *Journal of Nutritional Science*, 5(47). doi: 10.1017/jns.2016.41.

Pandey, K. B. and Rizvi, S. I. (2009) 'Plant polyphenols as dietary antioxidants in human health and disease', *Oxidative Medicine and Cellular Longevity*, 2(5), pp. 270–278. doi: 10.4161/oxim.2.5.9498.

Parija, S. C. (2009) *Textbook of Microbiology & Immunology*. India: Elsevier. Available at: https://books.google.co.id/books?id=HcgGLfxDJSQC&printsec=frontcover#v=onepage&q&f=false.

Pereira, E. M. R. *et al.* (2011) 'In vitro antimicrobial activity of Brazilian medicinal plant extracts against pathogenic microorganisms of interest to dentistry', *Planta Medica*, 77(4), pp. 401–404. doi: 10.1055/s-0030-1250354.

Phongpaichit, S. *et al.* (2007) 'Biological activities of extracts from endophytic fungi isolated from Garcinia plants'. doi: 10.1111/j.1574-695X.2007.00331.x.

Piljac-Žegarac, J. and Šamec, D. (2011) 'Antioxidant stability of small fruits in postharvest storage at room and refrigerator temperatures', *Food Research International*, 44(1), pp. 345–350. doi: 10.1016/j.foodres.2010.09.039.

Pincemail, J. *et al.* (2007) 'Evolution of Antioxidant Capacity during Storage of Selected Fruits and Vegetables', *Journal of Agricultural and Food Chemistry*, 55(21), pp. 8596–8603. doi: 10.1021/jf071736j.

Pinho, P. and Ferreira, O. (2012) 'Solubility of flavonoids in pure and mixed solvents', *Industrial & Engineering Chemistry Research*. Portugal: American Chemical Society, 51, pp. 6586–6590.

Pinto, M. D. S. *et al.* (2009) 'Potential of *Ginkgo biloba* L. leaves in the management of hyperglycemia and hypertension using in vitro models', *Bioresource Technology*.

Elsevier Ltd, 100(24), pp. 6599–6609. doi: 10.1016/j.biortech.2009.07.021.

Pisoschi, A. M. and Negulescu, G. P. (2011) 'Methods for Total Antioxidant Activity Determination: A Review', *Biochemistry & Analytical Biochemistry*, 1(1), pp. 1–10. doi: 10.4172/2161-1009.1000106.

Plodpai, P. *et al.* (2013) '*Desmos chinensis*: A new candidate as natural antifungicide to control rice diseases', *Industrial Crops and Products*. Elsevier B.V., 42(1), pp. 324–331. doi: 10.1016/j.indcrop.2012.05.038.

Purwidyaningrum, I., Sukandar, E. Y. and Fidrianny, I. (2016) 'Diuretic Activity of Different Organs of Matoa (*Pometia pinnata*) Extracts and Its Influence on Potassium and Sodium Levels', *International Journal of Pharmacognosy and Phytochemical Research*, 8(2), pp. 244–247. doi: 10.22159/ajpcr.2017.v10s2.19481.

Raaman, N. (2006) *Phytochemical Techniques*. New Delhi: New India Publishing Agency.

Rachmatiah, T. and Poputra, C. E. (2018) 'The In Vitro Antidiabetic Activity of Leaf and Bark of Matoa (*Pometia pinnata* J.R. & G. Forst) By Alpha-Glucosidase Inhibitory Activity', *American Journal of Ethnomedicine*, 5, p. 21767. doi: 10.21767/2348-9502-c1-005.

Raodah, S. and Kadir, S. (2014) *Tanaman Khas Papua: Matoa*. Papua: BPTP Papua.

Recuenco, M., Lacsamana, M. S. and Sabularse, V. (2016) 'Total Phenolic and Total Flavonoid Contents of Selected Fruits in the Philippines', *Philippine Journal of Science*, 145(3), pp. 275–281.

Ren, S. *et al.* (2013) 'Flavonoids from Litchi (*Litchi chinensis* Sonn.) Seeds and Their Inhibitory Activities on α-Glucosidase', *Chemical Research in Chinese Universities*, 29(4), pp. 682–685. doi: 10.1007/s40242-013-3030-x.

Sampaio, B. L., Edrada-Ebel, R. and Da Costa, F. B. (2016) 'Effect of the environment on the secondary metabolic profile of *Tithonia diversifolia*: A model for environmental metabolomics of plants', *Scientific Reports*. Nature Publishing Group, 6(June), pp. 1–

11. doi: 10.1038/srep29265.

Sancheti, S. *et al.* (2011) 'Screening of Korean Medicinal Plant Extracts for α -Glucosidase Inhibitory Activities', *Iranian Journal of Pharmaceutical Research*, 10(2), pp. 261–264.

Sánchez-Rangel, J. C. *et al.* (2013) 'The Folin-Ciocalteu assay revisited: Improvement of its specificity for total phenolic content determination', *Analytical Methods*, 5(21), pp. 5990–5999. doi: 10.1039/c3ay41125g.

Santoso, F. *et al.* (2016) 'Alpha-Glucosidase Inhibitory Effect of Methanolic Extracts from Indonesian Plants', in *2nd International Conference on Sustainable Global Agriculture and Food (ICSAF) "Safeguarding Global Consumers: Innovation in Food Science and Technology"*, pp. 184–194.

Sasidharan, S. *et al.* (2011) 'Extraction, Isolation and Characterization of Bioactive Compounds from Plants' Extracts', *African Journal of Traditional Complementary Alternative Medicine*, 8(1), pp. 1–10. doi: 10.1155/2017/9305047.

Seenivasan, R. *et al.* (2012) 'Minimum Inhibitory Concentrations of Medicinal Plants Used in Northern Peru as Antibacterial Remedies', *Journal Ethnopharmacol*, 2(1), pp. 178–183. doi: 10.1016/j.jep.2010.07.048.Minimum.

Sihombing, J. R. *et al.* (2015) 'Phytochemical Screening and Antioxidant Activities of 31 Fruit Peel Extract from Sumatera, Indonesia', *Journal of Chemical and Pharmaceutical Research*, 7(11), pp. 190–196.

Su, D. *et al.* (2014) 'Comparison of the Free and Bound Phenolic Profiles and Cellular Antioxidant Activities of Litchi Pulp Extracts from Different Solvents', *BMC Complementary and Alternative Medicine*, 14(9). doi: 10.1186/1472-6882-14-9.

Sudjaroen, Y. (2013) 'Screening for antimicrobial and antimalarial activities of longan (*Dimocarpus longan* Lour) seeds', *Academic Journals*, 8(18), pp. 718–721. doi: 10.5897/SRE12.587.

Suedee, A., Tewtrakul, S. and Panichayupakaranant, P. (2013) 'Anti-HIV-1 Integrase

Compound from *Pometia pinnata* Leaves', *Pharmaceutical Biology*, 51(10), pp. 1256–1261. doi: 10.3109/13880209.2013.786098.

Sukiman, M., Margaretha, J. A. and Irawan, C. (2018) 'Evaluation of antidiabetes activity of matoa seed extract (*Pometia pinnata*) using enzym α -glucosidase', 7(5), pp. 10–12.

Suprapta, D. N. (2016) *A Review of Tropical Plants with Antifungal Activities against Plant Fungal Pathogens*. Basel, Switzerland. doi: 10.20944/preprints201610.0049.v1.

Taman Wisata Mekarsari (2018) *Matoa*. Available at: http://mekarsari.com/web/agro/matoa/ (Accessed: 19 November 2018).

Tang, Y.-Y. *et al.* (2019) 'Polyphenols and Alkaloids in Byproducts of Longan Fruits (*Dimocarpus Longan* Lour.) and Their Bioactivities', *Molecules*, 24(1186).

Thaipong, K. *et al.* (2006) 'Comparison of ABTS, DPPH, FRAP, and ORAC assays for estimating antioxidant activity from guava fruit extracts', *Journal of Food Composition and Analysis*, 19(6–7), pp. 669–675. doi: 10.1016/j.jfca.2006.01.003.

Thitilertdecha, N., Teerawutgulrag, A. and Rakariyatham, N. (2008) 'Antioxidant and antibacterial activities of *Nephelium lappaceum* L. extracts', *LWT - Food Science and Technology*, 41(10), pp. 2029–2035. doi: 10.1016/j.lwt.2008.01.017.

Thomson, L. A. J. and Thaman, R. R. (2006) 'Pometia pinnata (tava)', *Species profiles for Pacific Island Agroforestry*, (April), pp. 2–8.

Thorat, I. (2013) 'Antioxidants, their properties, uses in food products and their legal implications', *International Journal of Food Studies*, 2(1), pp. 81–104. doi: 10.7455/ijfs/2.1.2013.a7.

Tiwari, P. *et al.* (2011) 'Phytochemical Screening and Extraction: A Review', *Internationale Pharmaceutical Sciencia*, 1(1), pp. 98–106. doi: 10.1002/hep.29375.

Trimedona, N. *et al.* (2015) 'Isolation of Triterpenoid from Stem Bark of *Pometia pinnata*, Forst & Forst', *Journal of Chemical and Pharmaceutical Research*, 7(11), pp.

225–227.

Tsao, R. (2010) 'Chemistry and biochemistry of dietary polyphenols', *Nutrients*, 2(12), pp. 1231–1246. doi: 10.3390/nu2121231.

Tseng, H. C. *et al.* (2014) 'Antimicrobial activities of various fractions of longan (*Dimocarpus longan* Lour. Fen Ke) seed extract', *International Journal of Food Sciences and Nutrition*, 65(5), pp. 589–593. doi: 10.3109/09637486.2014.886181.

Useful Tropical Plants (2018) *Pometia pinnata J.R. Forst. & G. Forst.* Available at: http://www.tropical.theferns.info/viewtropical.php?id=Pometia+pinnata (Accessed: 19 November 2018).

Viña, S. Z. and Chaves, A. R. (2006) 'Antioxidant responses in minimally processed celery during refrigerated storage', *Food Chemistry*, 94(1), pp. 68–74. doi: 10.1016/j.foodchem.2004.10.051.

Wambrauw, H. L. (2011) *Karakterisasi Morfologi dan Isozim Matoa (Pometia pinnata Forst.)*. Bogor Agricultural University.

Whistler, W. A. (1991) 'Herbal Medicine in the Kingdom of Tonga', *Journal of Ethnopharmacology*, 31, pp. 339–372.

Wiegand, I., Hilpert, K. and Hancock, R. E. W. (2008) 'Agar and broth dilution methods to determine the minimal inhibitory concentration (MIC) of antimicrobial substances.', *Nature protocols*, 3(2), pp. 163–75. doi: 10.1038/nprot.2007.521.

World Health Organization (1998) *Medicinal Plants in the South Pacific*. Edited by M. Doyle. Manila: World Health Organization.

World Health Organization (2017) *Cardiovascular Diseases (CVDs)*. Available at: https://www.who.int/cardiovascular_diseases/en/ (Accessed: 23 November 2018).

World Health Organization (2018) *Diabetes*. Available at: https://www.who.int/health-topics/diabetes (Accessed: 23 November 2018).

Wu, D. *et al.* (2008) 'd-Alanine:d-alanine ligase as a new target for the flavonoids

quercetin and apigenin', *International Journal of Antimicrobial Agents*, 32(5), pp. 421–426. doi: 10.1016/j.ijantimicag.2008.06.010.

Xie, Y. *et al.* (2017) 'Antibacterial activity of polyphenols: Structure-activity relationship and influence of hyperglycemic condition', *Molecules*, 22(11). doi: 10.3390/molecules22111913.

Zanwar, A. A. *et al.* (2013) *Role of Gallic Acid in Cardiovascular Disorders*, *Polyphenols in Human Health and Disease*. Elsevier Inc. doi: 10.1016/B978-0-12-398456-2.00080-3.

Zhang, R. *et al.* (2018) 'Phenolic Profiles and Cellular Antioxidant Activity of Longan Pulp of 24 Representative Chinese Cultivars', *International Journal of Food Properties*, 21(1), pp. 746–759.