

REFERENCES

- Alkhalidy, H., *et al.* (2018). Dietary flavonoids in the prevention of T2D: An overview. *Nutrients*, 10(4), 438.
- American Society of Microbiology. (1969, December 31). 'Fig. 2'. Retrieved June 14, 2020, from <https://aem.asm.org/content/65/9/4141/F2>
- Abdul, Q. A., *et al.* (2016). 'Health benefit of fucosterol from marine algae: a review'. *Journal of the Science of Food and Agriculture*, 96(6), 1856-1866.
- Adisakwattana, S., *et al.* (2009). 'A series of cinnamic acid derivatives and their inhibitory activity on intestinal α -glucosidase'. *Journal of enzyme inhibition and medicinal chemistry*, 24(5), 1194-1200.
- Alam, M. A., *et al.* (2016). 'Hydroxycinnamic acid derivatives: a potential class of natural compounds for the management of lipid metabolism and obesity'. *Nutrition & metabolism*, 13(1), 27.
- Asgar, M. A. (2012). 'Anti-Diabetic Potential of Phenolic Compounds: A Review'. *International Journal of Food Properties*, 16(1), 91-103.
- Avato, P., *et al.* (2006). 'Antimicrobial activity of saponins from *Medicago* sp.: structure- activity relationship'. *Phytotherapy Research: An International Journal Devoted to Pharmacological and Toxicological Evaluation of Natural Product Derivatives*, 20(6), 454-457.
- Babu, P. V. A., *et al.* (2013). 'Recent advances in understanding the anti-diabetic actions of dietary flavonoids'. *The Journal of nutritional biochemistry*, 24(11), 1777-1789.
- Peraturan Kepala Badan Pengawas Obat Dan Makanan Republik Indonesia No. 13 (2016) *Pengawasan Klaim Pada Label Dan Iklan Pangan Olahan*. Badan Pengawas Obat dan Makanan Republik Indonesia. Jakarta
- Balkhi, T. M. B., & Bhat, F. A. (2012). 'Bioactive potential of leaf extracts from *Urtica dioica* L. against fish and human pathogenic bacteria'. *African Journal of Microbiology Research*, 6(41), 6893-6899.
- Barilla Center. (2012). 'Eating in 2030: Trends and Perspective'. Retrieved from <https://www.barillacfn.com/m/publications/eating-in-2030-trends-and-perspectives.pdf>

- Benjamin, A., & Manickam, V. S. (2007). Medicinal pteridophytes from the Western Ghats'.
- Bozalan, N. K., & Karadeniz, F. (2011). 'Carotenoid profile, total phenolic content, and antioxidant activity of carrots'. *International journal of food properties*, 14(5), 1060-1068.
- Burdulis, D., *et al.* (2009). 'Comparative study of anthocyanin composition, antimicrobial and antioxidant activity in bilberry (*Vaccinium myrtillus* L.) and blueberry (*Vaccinium corymbosum* L.) fruits'. *Acta poloniae pharmaceutica*, 66(4), 399-408.
- Cai, Y., *et al.* (2016). 'Recent advances in anticancer activities and drug delivery systems of tannins'. *Medicinal research reviews*, 37(4), 665-701.
- Calderon-Montano, J. M., *et al.* (2011). 'A review on the dietary flavonoid kaempferol'. *Mini reviews in medicinal chemistry*, 11(4), 298-344.
- Chai, T. T. *et al.* (2012). 'Phenolic contents and antioxidant properties of *Stenochlaena palustris*, an edible medicinal fern'. *Botanical Studies*, 53(4): 439-446
- Chai, T. T. *et al.* (2015). 'Water fraction of edible medicinal fern *Stenochlaena palustris* is a potent α -glucosidase inhibitor with concurrent antioxidant activity'. *Food chemistry*, 186, 26-31.
- Chambers, T. C. (2013). 'A review of the genus *Stenochlaena* (Blechnaceae, subfamily Stenochlaenoideae)'. *Telopea*, 15, 13-36.
- Chan, P. K. (2007). 'Acylation with diangeloyl groups at C21–22 positions in triterpenoid saponins is essential for cytotoxicity towards tumor cells'. *Biochemical pharmacology*, 73(3), 341-350.
- Chear, N. J. Y., *et al.* (2016). 'Cholinesterase inhibitory activity and chemical constituents of *Stenochlaena palustris* fronds at two different stages of maturity'. *Journal Of Food And Drug Analysis*, 24(2), 358-366.
- Chen, J. H., & Ho, C. T. (1997). 'Antioxidant activities of caffeic acid and its related hydroxycinnamic acid compounds'. *Journal of agricultural and food chemistry*, 45(7), 2374-2378.

- Choi, J. M., *et al.* (2007). 'Identification of campesterol from *Chrysanthemum coronarium* L. and its antiangiogenic activities'. *Phytotherapy Research*, 21(10), 954-959.
- Chung, K. T., *et al.* (1998). 'Tannins and human health: a review'. *Critical reviews in food science and nutrition*, 38(6), 421-464.
- Cisowska, A., *et al.* (2011). 'Anthocyanins as antimicrobial agents of natural plant origin'. *Natural product communications*, 6(1), 1934578X1100600136.
- Constantinou, C., *et al.* (2008). 'Vitamin E and cancer: an insight into the anticancer activities of vitamin E isomers and analogs'. *International journal of cancer*, 123(4), 739-752.
- Cos, P., *et al.* (2004). 'Proanthocyanidins in health care: current and new trends'. *Current medicinal chemistry*, 11(10), 1345-1359.
- Daglia, M. (2012). 'Polyphenols as antimicrobial agents'. *Current opinion in biotechnology*, 23(2), 174-181.
- Dar, S., A., *et al.* (2012). Bioactive potential of leaf extracts from *Urtica dioica* L. against fish and human pathogenic bacteria. *African Journal of Microbiology Research*, 6(41), 6893-6899.
- Deshpande, S., *et al.* (2013). Antimicrobial activity of Saponins rich fraction of *Cassia auriculata* Linn against various microbial strains. *International Current Pharmaceutical Journal*, 2(4), 85-87.
- Dou, F., *et al.* (2013). 'α-Glucosidase and-amylase inhibitory activities of saponins from traditional Chinese medicines in the treatment of diabetes mellitus'. *Die Pharmazie-An International Journal of Pharmaceutical Sciences*, 68(4), 300-304.
- El-Agamy, D. S., *et al.* (2017). 'Modulation of cyclophosphamide-induced cardiotoxicity by methyl palmitate'. *Cancer chemotherapy and pharmacology*, 79(2), 399-409.
- Feldlaufer, M. F., *et al.* (1993). 'Isolation and identification of linoleic acid as an antimicrobial agent from the chalkbrood fungus, *Ascosphaera apis*'. *Apidologie*, 24(2), 89-94.
- Feng, R., *et al.* (2007). 'Cyanidin-3-rutinoside, a natural polyphenol antioxidant, selectively kills leukemic cells by induction of oxidative stress'. *Journal of Biological Chemistry*, 282(18), 13468-13476.

- Fleck, J. D., *et al.* (2019). 'Saponins from *Quillaja saponaria* and *Quillaja brasiliensis*: particular chemical characteristics and biological activities'. *Molecules*, 24(1), 171.
- Flohé, R. B., & Traber, M. G. (1999). 'Vitamin E: Function and metabolism'. *The FASEB Journal*, 13(10), 1145-1155.
- Forester, S. C., *et al.* (2011). 'Identification and cancer therapeutic properties of microfloral anthocyanin metabolites'. *Journal of wine research*, 22(2), 171-174.
- Fu, X., *et al.* (2016). Effect and potential mechanism of action of sea cucumber saponins on postprandial blood glucose in mice. *Bioscience, biotechnology, and biochemistry*, 80(6), 1081-1087.
- Gao, H., *et al.* (2007). 'Inhibitory effect on α -glucosidase by the fruits of *Terminalia chebula* Retz.' *Food Chemistry*, 105(2), 628-634.
- Geetha, B. S., Mathew, B. C., & Augusti, K. T. (1994). 'Hypoglycemic effects of leucodelphinidin derivative isolated from *Ficus bengalensis* (Linn.)'. *Indian journal of physiology and pharmacology*, 38, 220-220.
- Girdhar, S., *et al.* (2015). 'Plant derived alkaloids in major neurodegenerative diseases: from animal models to clinical trials'. *J Ayurvedic Herb Med*, 1(3), 91-100.
- Hegerman, A. E. (2011). *The Tannin Handbook*. Miami: Miami University Hughes Laboratories
- Heim, K. E., *et al.* (2002). 'Flavonoid antioxidants: chemistry, metabolism and structure-activity relationships'. *The Journal of nutritional biochemistry*, 13(10), 572-584.
- Hertog, M. G., *et al.* (1997). 'Antioxidant flavonols and ischemic heart disease in a Welsh population of men: the Caerphilly Study'. *The American journal of clinical nutrition*, 65(5), 1489-1494.
- Heisler, I., *et al.* (2005). 'Combined application of saponin and chimeric toxins drastically enhances the targeted cytotoxicity on tumor cells'. *Journal of controlled release*, 106(1-2), 123-137.
- Herrero, M., *et al.* (2006). 'Dunaliella salina microalga pressurized liquid extracts as potential antimicrobials'. *Journal of food protection*, 69(10), 2471-2477.
- Hirano, K., *et al.* (2000). 'Pyrinodemins BD, potent cytotoxic bis-pyridine alkaloids

- from marine sponge *Amphimedon sp.*. *Chemical and pharmaceutical bulletin*, 48(7), 974-977.
- Houghton, P. J., & Howes, M. J. (2005). 'Natural products and derivatives affecting neurotransmission relevant to Alzheimer's and Parkinson's disease'. *Neurosignals*, 14(1-2), 6-22.
- Houng, N. T. T., *et al.* (1998). 'In vitro antioxidant activity of Vietnamese ginseng saponin and its components'. *Biological and Pharmaceutical Bulletin*, 21(9), 978-981.
- Ibañez, E., *et al.* (2012). 'Extraction and characterization of bioactive compounds with health benefits from marine resources: macro and micro algae, cyanobacteria, and invertebrates'. In *Marine bioactive compounds* (pp. 55-98). Springer, Boston, MA.
- Imran, M., *et al.* (2019). 'Kaempferol: A key emphasis to its anticancer potential'. *Molecules*, 24(12), 2277.
- Irawan, D., *et al.* (2006). 'Ethnobotanical study and nutrient potency of local traditional vegetables in Central Kalimantan'. *Tropics*, 15(4), 441-448.
- Ishikawa, A., *et al.* (2007). 'Characterization of inhibitors of postprandial hyperglycemia from the leaves of *Nerium indicum*'. *Journal of nutritional science and vitaminology*, 53(2), 166-173.
- Jo, S. *et al.* (2009). 'Comparison of antioxidant potential and rat intestinal α -glucosidases inhibitory activities of quercetin, rutin, and isoquercetin'. *International Journal of Applied Research in Natural Products*, 2(4), 52-60
- Jung, H. A., *et al.* (2013). 'Anti-inflammatory activity of edible brown alga *Eisenia bicyclis* and its constituents fucosterol and phlorotannins in LPS-stimulated RAW264. 7 macrophage's. *Food and chemical toxicology*, 59, 199-206.
- Jung, M., & Park, M. (2007). 'Acetylcholinesterase inhibition by flavonoids from *Agrimonia pilosa*'. *Molecules*, 12(9), 2130-2139.
- Kerry Health and Nutrition Institute. (2020). 'Ten Key Health and Nutrition Trends 2020'. Retrieved June 10, 2020, from <https://khni.kerry.com/trends-and-insights/ten-key-health-and-nutrition-trends-of-this-year/>
- Khalid, M. N., *et al.* (2011). 'Bioactivity and phycochemical studies on *Microspora floccosa* (Chlorophycota) from Sindh'. *Pak. J. Bot*, 43(5), 2557-2560.

- Khalid, M. N., *et al.* (2010). 'Bioactivity and phycochemistry of *Gloeotrichia raciborskii* (Cyanophycota) from Sindh'. *International Journal of Phycology and Phycochemistry (Pakistan)*.
- Khatib, O. M. N. (2006). *Guidelines for the management of hypertension in patients with diabetes mellitus: quick reference guide*. Cairo: World Health Organization.
- Kim, S. H., & Choi, K. C. (2013). 'Anti-cancer effect and underlying mechanism (s) of kaempferol, a phytoestrogen, on the regulation of apoptosis in diverse cancer cell models'. *Toxicological research*, 29(4), 229-234.
- Konrath, E. L., *et al.* (2013). 'Alkaloids as a source of potential anticholinesterase inhibitors for the treatment of Alzheimer's disease'. *Journal of Pharmacy and Pharmacology*, 65(12), 1701-1725.
- Kusmardiyani, S., *et al.* (2016). 'Antioxidant activities from various extracts of different parts of kelakai (*Stenochlaena palustris*) grown in central Kalimantan-Indonesia'. *Asian Journal of Pharmaceutical and Clinical Research*: 215-219.
- Lalitharani, S., *et al.* (2010). 'GC-MS analysis of ethanolic extract of *Zanthoxylum rhetsa* (roxb.) dc spines'. *J Herbal Med Toxicol*, 4, 191-2.
- Lee, S., *et al.* (2003). 'Anti-oxidant activities of fucosterol from the marine algae *Pelvetia siliquosa*'. *Archives of Pharmacal Research*, 26(9), 719-722.
- Lee, S. J., *et al.* (2011). 'Anti-hyperlipidemia and anti-arteriosclerosis effects of *Laminaria japonica* in Sprague-Dawley rats'. *Fisheries and aquatic sciences*, 14(4), 235-241.
- Lee, Y. A., *et al.* (2007). 'Inhibitory activities of proanthocyanidins from persimmon against oxidative stress and digestive enzymes related to diabetes'. *Journal of Nutritional Science and Vitaminology*, 53(3), 287-292.
- Lee, Y. S., *et al.* (2004). 'Anti-Diabetic activities of fucosterol from *Pelvetia siliquosa*'. *Archives of pharmacal research*, 27(11), 1120-1122.
- Leng, V. K. W. (2016). 'Isolation and Structure Elucidation of Potent A-Glucosidase Inhibitory Bioactive Compound from *Stenochlaena palustris* by SPE, HPLC and NMR' (Doctoral dissertation, UTAR).
- Loizzo, M. R., *et al.* (2010). '*Salvia leriifolia* Benth (Lamiaceae) extract demonstrates in vitro antioxidant properties and cholinesterase inhibitory activity'. *Nutrition research*, 30(12), 823-830.

- Marković, J. M. D., *et al.* (2014). 'Energy requirements of the reactions of kaempferol and selected radical species in different media: towards the prediction of the possible radical scavenging mechanisms'. *Structural chemistry*, 25(6), 1795-1804.
- Manimala, M. R. A., & Murugesan, R. (2014). 'In vitro antioxidant and antimicrobial activity of carotenoid pigment extracted from *Sporobolomyces sp.* isolated from natural source'. *Journal of Applied and Natural Science*, 6(2), 649-653.
- Mathew, B. C. *et al.* (2012). 'Hypolipidaemic effect of leucodelphinidin derivative from *Ficus bengalensis* Linn on cholesterol fed rats'. *Research Journal of Chemical Sciences*
- Miguel, M. G. (2010). 'Antioxidant activity of medicinal and aromatic plants. A review'. *Flavour and Fragrance Journal*, 25(5), 291-312.
- Moghimpour, E., & Handali, S. (2015). 'Saponin: properties, methods of evaluation and applications'. *Annual Research & Review in Biology*, 207-220.
- Najwa, F. R., & Azrina, A. (2017). 'Comparison of vitamin C content in citrus fruits by titration and high performance liquid chromatography (HPLC) methods'. *International Food Research Journal*, 24(2), 726.
- Neamsuvan, O., *et al.* (2015). 'A survey of medicinal plants around Upper Songkhla Lake, Thailand'. *African Journal of Traditional, Complementary and Alternative Medicines*, 12(2), 133-143.
- Nguyen, M. T. T., *et al.* (2012). Screening of alpha-glucosidase inhibitory activity of Vietnamese medicinal plants: Isolation of active principles from *Oroxylum indicum*. *Nat Prod Sci*, 18(1), 47-51.
- Nithya, K., *et al.* (2018). 'Desert actinobacteria as a source of bioactive compounds production with a special emphases on Pyridine-2, 5-diacetamide a new pyridine alkaloid produced by *Streptomyces sp.* DA3-7'. *Microbiological research*, 207, 116-133.
- Oakenfull, D. (1981). 'Saponins in food—a review'. *Food chemistry*, 7(1), 19-40.
- Peng, X., *et al.* (2016). 'Inhibitory kinetics and mechanism of kaempferol on α -glucosidase'. *Food chemistry*, 190, 207-215.

- Pinent, M., *et al.* (2005). 'Grape-seed derived procyanidins interfere with adipogenesis of 3T3-L1 cells at the onset of differentiation'. *International journal of obesity*, 29(8), 934-941.
- Podolak, I., *et al.* (2010). 'Saponins as cytotoxic agents: a review'. *Phytochemistry Reviews*, 9(3), 425-474.
- Pojer, E., *et al.* (2013). 'The case for anthocyanin consumption to promote human health: a review'. *Comprehensive Reviews in Food Science and Food Safety*, 12(5), 483-508.
- Ponnusamy, Y., *et al.* (2013). 'Antioxidant and antibacterial properties of Malaysian ferns used traditionally against infection'. *J. Nat. Prod. Plant Resour*, 3(6), 14-18.
- Polovich, M., *et al.* (2014). 'Overview of Cancer and Cancer Treatment'. In *Chemotherapy and biotherapy guidelines and recommendations for practice* (4th ed., pp. 1–16). essay, Oncology Nursing Society.
- Priyadi, H., *et al.* (2010). *Five Hundred Plant Species in Gunung Halimun Salak National Park, West Java: A Checklist Including Sundanese Names, Distribution, and Use*. CIFOR.
- Puteri, M. D. P. T. G., *et al.* (2020, March). 'Analysis of Lipase and Lipid Formation in Adipocytes Inhibitory Capabilities in Kelakai (*Stenochlaena palustris*) for Obesity Management'. In *5th International Conference on Food, Agriculture and Natural Resources (FANRes 2019)* (pp. 226-231). Atlantis Press.
- Rahmawati, D., *et al.* (2017). 'Extraction and stability analysis of antioxidant activity from *Stenochlaena palustris*'. *International Postgraduate Symposium on Food, Agriculture and Biotechnology*, 2017.
- Ringbom, T., *et al.* (2001). 'Cox-2 inhibitory effects of naturally occurring and modified fatty acids'. *Journal of natural products*, 64(6), 745-749.
- Rocha, L. D., *et al.* (2012). 'Anticancer properties of hydroxycinnamic acids-A Review'. *Cancer and clinical oncology*, 1(2), 109-121.
- Roohbakhsh, A., *et al.* (2017). 'Carotenoids in the treatment of diabetes mellitus and its complications: A mechanistic review'. *Biomedicine & Pharmacotherapy*, 91, 31-42.
- Salim, Z., & Munadi, E. (2007). *Info Komoditi Tanaman Obat*. Badan Pengkajian dan Pengembangan Perdagangan. Jakarta Pusat, DKI Jakarta. Retrieved from

http://bppp.kemendag.go.id/media_content/2017/12/Isi_BRIK_Tanaman_Obat.pdf

- Salvadó, M. J., *et al.* (2015). 'Roles of proanthocyanidin rich extracts in obesity'. *Food & function*, 6(4), 1053-1071.
- Santoso, J. A. (2018). 'Selection of *Stenochlaena palustris* extracts based on alpha-glucosidase inhibitory activities'. BS Thesis. Department of Food Technology. Swiss German University, Tangerang, Indonesia.
- Santoyo, S., *et al.* (2009). 'Green processes based on the extraction with pressurized fluids to obtain potent antimicrobials from *Haematococcus pluvialis* microalgae'. *LWT-Food Science and Technology*, 42(7), 1213-1218.
- Sarkar, S., *et al.* (2006). 'Methyl palmitate inhibits lipopolysaccharide-stimulated phagocytic activity of rat peritoneal macrophages'. *Journal of biochemical and molecular toxicology*, 20(6), 302-308.
- Scalbert, A. (1991). 'Antimicrobial properties of tannins'. *Phytochemistry*, 30(12), 3875-3883.
- Sharopov, F. (2015). *Phytochemistry and bioactivities of selected plant species with volatile secondary metabolites* (Doctoral dissertation).
- Sies, H., & Murphy, M. E. (1991). 'Role of tocopherols in the protection of biological systems against oxidative damage'. *Journal of photochemistry and photobiology. B, Biology*, 8(2), 211-218.
- Sies, H. (2000). What is oxidative stress?. In *Oxidative stress and vascular disease* (pp. 1-8). Springer, Boston, MA.
- Singh, B., *et al.* (2011). 'Estimation of phytoconstituents from *Cryptostegia grandiflora* (Roxb.) R. Br. in vivo and in vitro. II. Antimicrobial screening'. *J Med Plants Res*, 5(9), 1598-1605.
- Sloan, A. E. (2020, April 1). 'The Top 10 Functional Food Trends'. *Food Technology*, 74(3). Retrieved from <https://www.ift.org/news-and-publications/food-technology-magazine/issues/2020/april/features/the-top-10-functional-food-trends#anchor-b10f67a5-0bb3-4f3b-92f2-081af43aab0e>
- Soetan, K. O., & Aiyelaagbe, O. O. (2009). 'The need for bioactivity-safety evaluation and conservation of medicinal plants: A review'. *Journal of medicinal plants research*, 3(5), 324-328.

- Sova, M. (2012). 'Antioxidant and antimicrobial activities of cinnamic acid derivatives'. *Mini reviews in medicinal chemistry*, 12(8), 749-767.
- Stahl, W., & Sies, H. (2003). 'Antioxidant activity of carotenoids'. *Molecular aspects of medicine*, 24(6), 345-351.
- Stahl, W., & Sies, H. (2005). 'Bioactivity and protective effects of natural carotenoids'. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 1740(2), 101-107.
- Suhartono, E. *et al.* (2012). 'Total flavonoid and antioxidant activity of some selected medicinal plants in South Kalimantan of Indonesian'. *APCBEE Procedia*, 4, 235-239.
- Sumathy, V. *et al.* (2010). 'Effects of *Stenochlaena palustris* Leaf Extract on Growth and Morphogenesis of Food Borne Pathogen, *Aspergillus niger*'. *Malaysian journal of nutrition*, 16(3).
- Takikawa, M., Inoue, S., Horio, F., & Tsuda, T. (2010). 'Dietary anthocyanin-rich bilberry extract ameliorates hyperglycemia and insulin sensitivity via activation of AMP-activated protein kinase in diabetic mice'. *The Journal of nutrition*, 140(3), 527-533.
- Teji, S. (2019). 'Analysis of Alpha-Glucosidase Inhibitor Activity in Wild *Stenochlaena palustris* from Kalimantan Origin'. BS Thesis. Department of Food Technology Swiss German University, Tangerang, Indonesia.
- Thomas, T. (2009). 'Antibacterial Evaluation of Gradient Extracts of *Stenochlaena palustris* (Burm. f) Bedd. Towards Bacteria Involved in Skin Diseases'. *Journal of Global Pharma Technology*, 11, 1-4.
- Thursina, D. (2010). 'Kandungan Mineral Kalakai (*Stenochlaena palustris*) yang Tumbuh pada Jenis Tanah Berbeda serta Dimasak dengan Cara Berbeda'. BS Thesis. Department of Food Science and Technology. Bogor Agricultural University, Bogor, Indonesia.
- Toda, M., *et al.* (2001). 'Inhibitory effects of ellagi- and gallotannins on rat intestinal α -glucosidase complexes'. *Bioscience, biotechnology, and biochemistry*, 65(3), 542-547.

- Tsuda, T., *et al.* (2003). 'Dietary cyanidin 3-O- β -D-glucoside-rich purple corn color prevents obesity and ameliorates hyperglycemia in mice'. *The Journal of nutrition*, 133(7), 2125-2130.
- Valdes-Miramontes, *et al.* (2018). 'Vegetal Sources of Iron'. In *Iron Deficiency Anemia*. IntechOpen.
- Vicentini, A., *et al.* (2016). 'Functional Foods: Trends and Development Of The Global Market'. *Italian Journal of Food Science*, 28(2).
- Vinson, J. A., *et al.* (1995). 'Plant flavonoids, especially tea flavonols, are powerful antioxidants using an in vitro oxidation model for heart disease'. *Journal of Agricultural and Food Chemistry*, 43(11), 2800-2802.
- Wahab, N. A., *et al.* (2015). 'Nutritional values and bioactive components of under- utilised vegetables consumed by indigenous people in Malaysia'. *Journal of the Science of Food and Agriculture*, 95(13), 2704-2711.
- Williams, A. R., *et al.* (2015). 'Anthelmintic activity of trans-cinnamaldehyde and A- and B-type proanthocyanidins derived from cinnamon (*Cinnamomum verum*)'. *Scientific reports*, 5, 14791.
- Wang, L., *et al.* (2006). 'Distinctive antioxidant and antiinflammatory effects of flavonols'. *Journal of Agricultural and Food Chemistry*, 54(26), 9798-9804.
- World Health Organization. 2020. 'Obesity and overweight' [Fact Sheet].
<https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight>
- Woyengo, T. A., *et al.* (2009). 'Anticancer effects of phytosterols'. *European journal of clinical nutrition*, 63(7), 813-820.
- Xi, M., *et al.* (2008). 'Antioxidant and antiglycation properties of total saponins extracted from traditional Chinese medicine used to treat diabetes mellitus'. *Phytotherapy Research: An International Journal Devoted to Pharmacological and Toxicological Evaluation of Natural Product Derivatives*, 22(2), 228-237.
- Yoneda, S., & Nakatsubo, F. (1998). 'Effects of the hydroxylation patterns and degrees of polymerization of condensed tannins on their metal-chelating capacity'. *Journal of wood chemistry and technology*, 18(2), 193-205.
- Yoshida, Y., & Niki, E. (2003). 'Antioxidant effects of phytosterol and its components'. *Journal of nutritional science and vitaminology*, 49(4), 277-280.

- Yusuf, U. K. (2010). *Ferns of Malaysian rain forest: a journey through the fern world*. Serdang: Universiti Putra Malaysia Press.
- Zannah, F. *et al.* (2016). 'Ethnobotany study of kelakai (*Stenochlaena palustris* Bedd) as an endemic fern at Central of Kalimantan', in *Proceeding International Conference on Global Resource Conservation*.
- Zhang, Z., & Li, S. (2007). 'Cytotoxic triterpenoid saponins from the fruits of *Aesculus pavia* L'. *Phytochemistry*, 68(15), 2075-2086.