

REFERENCES

- Abdel-Aal, E. S. M., & Rabalski, I. (2013). Effect of baking on free and bound phenolic acids in wholegrain bakery products. *Journal of Cereal Science*, 57(3), 312–318. <https://doi.org/10.1016/J.JCS.2012.12.001>
- Acun, S., & Gül, H. (2014). Effects of grape pomace and grape seed flours on cookie quality. *Quality Assurance and Safety of Crops & Foods*, 6(1), 81–88. <https://doi.org/10.3920/QAS2013.0264>
- Adekola, K. A., Salleh, A. B., Zaidan, U. H., Azlan, A., Chiavaro, E., & Paciulli, M. (2017). Total phenolic content, antioxidative and antidiabetic properties of coconut (*Cocos nucifera* L.) testa and selected bean seed coats. *Italian Journal of Food Science*, 29(4), 741–753. <https://doi.org/https://doi.org/10.14674/IJFS-941>
- Adisakwattana, S. (2017). Cinnamic acid and its derivatives: Mechanisms for prevention and management of diabetes and its complications. In *Nutrients* (Vol. 9, Issue 2). MDPI AG. <https://doi.org/10.3390/nu9020163>
- Agostini-costa, T. da S. (2018). Bioactive compounds and health benefits of some palm species traditionally used in Africa and the Americas – A review. *Journal of Ethnopharmacology*, 224(October 2017), 202–229. <https://doi.org/10.1016/j.jep.2018.05.035>
- Ahmad, M., Wani, T. A., Wani, S. M., Masoodi, F. A., & Gani, A. (2016). Incorporation of carrot pomace powder in wheat flour: effect on flour, dough and cookie characteristics. *Journal of Food Science and Technology*, 53(10), 3715–3724. <https://doi.org/10.1007/s13197-016-2345-2>
- Ajay, S., Madhan, S., Vadivel, V., & Brindha, P. (2016). Recovery of polyphenols from agro-food byproducts: Coconut shell and groundnut hull. *International Journal of Pharmaceutical Sciences Review and Research*, 41(31), 161–167.
- Akhter, A., Zaman, S., Ali, U., Ali, Y., & Miah, M. A. J. (2009). Isolation of Polyphenolic Compounds from the Green Coconut (*cocos nucifera*) Shell and Characterization of their Benzoyl Ester Derivatives. *Journal of Scientific Research*, 2(1), 186–190. <https://doi.org/10.3329/jsr.v2i1.2659>
- Aksoylu, Z., Çağindi, Ö., & Köse, E. (2015). Effects of Blueberry, Grape Seed Powder and Poppy Seed Incorporation on Physicochemical and Sensory Properties of Biscuit. *Journal of Food Quality*, 38(3), 164–174. <https://doi.org/10.1111/JFQ.12133>
- Aliaño-González, M. J., Barea-Sepúlveda, M., Espada-Bellido, E., Ferreiro-González, M., López-Castillo, J. G., Palma, M., Barbero, G. F., & Carrera, C. (2022). Ultrasound-Assisted Extraction of Total Phenolic Compounds and Antioxidant Activity in Mushrooms. *Agronomy*, 12(8), 1812. <https://doi.org/10.3390/agronomy12081812>
- Al-Saab, A. H., & Gadallah, M. G. E. (2021). Phytochemicals, antioxidant activity and quality properties of fibre enriched cookies incorporated with

- orange peel powder. *Food Research*, 5(4), 72–79. [https://doi.org/10.26656/fr.2017.5\(4\).698](https://doi.org/10.26656/fr.2017.5(4).698)
- Anderson, J. K. M. K. A. W. V. W. C., Baird, P., Davis, R. J., Ferreri, S., Knudtson, M., Koraym, A., Waters, V., & Williams, C. (2009). Health benefits of dietary fiber. *Nutrition Reviews*, 67(4), 188–205.
- Apak, R., Güçlü, K., Özyürek, M., Karademir, S.E., Altun, M. (2005) Total Antioxidant Capacity Assay of Human Serum Using Copper(II)-Neocuproine as Chromogenic Oxidant: The CUPRAC Method. *Free Radic. Res.*, 39, 949–961.
- Appaiah, P., L, S., A G, G. K., & G, S. K. (2016). Phytochemicals and Antioxidant Activity of Testa Extracts of Commercial Wet and Dry Coconuts and Cakes. *International Research Journal of Pharmacy*, 7(9), 9–13. <https://doi.org/10.7897/2230-8407.079106>
- Arena, N., Lee, J., & Clift, R. (2016). Life Cycle Assessment of activated carbon production from coconut shells. *Journal of Cleaner Production*, 125, 68–77. <https://doi.org/10.1016/j.jclepro.2016.03.073>
- Arivalagan, M., Roy, T. K., Yasmeen, A. M., Pavithra, K. C., Jwala, P. N., Shivasankara, K. S., Manikantan, M. R., Hebbar, K. B., & Kanade, S. R. (2018). Extraction of phenolic compounds with antioxidant potential from coconut (*Cocos nucifera* L.) testa and identification of phenolic acids and flavonoids using UPLC coupled with TQD-MS/MS. *LWT - Food Science and Technology*, 92(November 2017), 116–126. <https://doi.org/10.1016/j.lwt.2018.02.024>
- Asma, F. Z., Rodiah, M. H., Aziah, M. Y., Norakma, M. N., & Nurhafizah, I. (2015). Ultrasound-Assisted Extraction of Natural Dye from Exocarp and Mesocarp of *Cocos nucifera*. *Advanced Materials Research*, 1113, 477–480. <https://doi.org/10.4028/www.scientific.net/amr.1113.477>
- Avelino, F., Silva, K. T., Mazzetto, S. E., & Lomonaco, D. (2019). Tailor-made organosolv lignins from coconut wastes effects of green solvents in microwave-assisted processes upon their structure and antioxidant activities. *Bioresource Technology Reports*.
- Ayala, A., Muñoz, M. F., & Argüelles, S. (2014). Lipid peroxidation: Production, metabolism, and signaling mechanisms of malondialdehyde and 4-hydroxy-2-nonenal. In *Oxidative Medicine and Cellular Longevity* (Vol. 2014). Landes Bioscience. <https://doi.org/10.1155/2014/360438>
- Azaroual, L., Liazid, A., El Mansouri, F., Brigui, J., Ruíz-Rodríguez, A., Barbero, G. F., & Palma, M. (2021). Optimization of the microwave-assisted extraction of simple phenolic compounds from grape skins and seeds. *Agronomy*, 11(8). <https://doi.org/10.3390/agronomy11081527>
- Baiano, A. (2014). Recovery of Biomolecules from FoodWastes—A Review. *Molecules*, 19, 14821–14842.
- Balasundrama, N., Sundramb, K., Sammana, S. (2006). Phenolic compounds in plants and agri-industrial by-products: Antioxidant activity, occurrence, and potential uses. *Food Chemistry*. 99:191–203.
- Baljeet, S. Y., Ritika, B. Y., & Reena, K. (2014). Effect of incorporation of carrot pomace powder and germinated chickpea flour on the quality

- characteristics of biscuits. *International Food Research Journal*, 21(1), 217–222.
- Barbosa-Cánovas, G. V., Fontana, A. J., Schmidt, S. J., Labuza, T. P., & Bell, L. N. (2020). Moisture Effects on Food's Chemical Stability.
- Barden, L., & Decker, E. A. (2013). Lipid oxidation in low-moisture food: A review. In *Critical Reviews in Food Science and Nutrition* (Vol. 56, Issue 15, pp. 2467–2482). Taylor and Francis Inc. <https://doi.org/10.1080/10408398.2013.848833>
- Becker, F. S., Damiani, C., de Melo, A. A. M., Borges, P. R. S., & de Barros Vilas Boas, E. V. (2014). Incorporation of Buriti Endocarp Flour in Gluten-free Whole Cookies as Potential Source of Dietary Fiber. *Plant Foods for Human Nutrition*, 69(4), 344–350. <https://doi.org/10.1007/S11130-014-0440-Y>
- Ben Jeddou, K., Bouaziz, F., Zouari-Ellouzi, S., Chaari, F., Ellouz-Chaabouni, S., Ellouz-Ghorbel, R., & Nouri-Ellouz, O. (2017). Improvement of texture and sensory properties of cakes by addition of potato peel powder with high level of dietary fiber and protein. *Food Chemistry*, 217, 668–677. <http://dx.doi.org/10.1016/j.foodchem.2016.08.081>. PMID:27664685.
- Bledzki, A. K., Mamun, A. A., & Volk, J. (2010). Barley husk and coconut shell reinforced polypropylene composites: The effect of fibre physical, chemical and surface properties. *Composites Science and Technology*, 70(5), 840–846. <https://doi.org/10.1016/j.compscitech.2010.01.022>
- Bo, J., & Muiyiwa A. (2019). Effects of Alkaloids of *Cocos nucifera* Husk Fibre on Cardiovascular Disease Indices in Albino Mice. <https://doi.org/10.35248/2329-6607.19.8.253>
- Boshir Ahmed, M., Kumer, A., Nazrul Islam, M., & Islam, T. S. A. (2018). The photochemical degradation (PCD) of nitrobenzene (NB) using UV light and fenton reagent under various conditions. *Journal of the Turkish Chemical Society, Section A: Chemistry*, 5(2), 803–818. <https://doi.org/10.18596/jotcsa.364152>
- Boulekbache-makhlouf, L., Medouni, L., Medouni-adrar, S., Arkoub, L., & Madani, K. (2013). Effect of solvents extraction on phenolic content and antioxidant activity of the byproduct of eggplant. *Industrial Crops & Products*, 49, 668–674. <https://doi.org/10.1016/j.indcrop.2013.06.009>
- Brand-Williams, W., Cuvelier, M. E., & Berset, C. (1995). Use of a Free Radical Method to Evaluate Antioxidant Activity. *Lebensmittel-Wissenschaft Und-Technologie*, 28, 25–30.
- Brewer, M.S. (2011). Natural Antioxidant: Source, Compounds, Mechanisms of Action, and Potential Application. *Comprehensive Reviews. Food Science and Food Safety* 10: 221-247.
- Buamard, N., & Benjakul, S. (2015). Improvement of gel properties of sardine (*Sardinella albella*) surimi using coconut husk extracts. 51, 146–155.
- Cabral, M. M. S., Abud, A. K. de S., Silva, C. E. de F., & Almeida, R. M. R. G. (2016). Bioethanol production from coconut husk fiber. *Ciência Rural*, 46(10), 1872–1877. <https://doi.org/10.1590/0103-8478CR20151331>

- Canciam, C. A., & Pereira, N. C. (2019). Assessment of the use of epicarp and mesocarp of green coconut for removal of fluoride ions in aqueous solution. *International Journal of Chemical Engineering*, 2019. <https://doi.org/10.1155/2019/7163812>
- Cardenas, A.F.C., Jurado, M.A.B. & Mora, O.O. (2014). Development of biscuit made from potato flour variety parda pastusa (*Solanum tuberosum* L.). *Acta Agronomica*, 63, 104–112.
- Castaldo, L., Lombardi, S., Gaspari, A., Rubino, M., Izzo, L., Narváez, A., Ritieni, A., & Grosso, M. (2021). In vitro bioaccessibility and antioxidant activity of polyphenolic compounds from spent coffee grounds-enriched cookies. *Foods*, 10(8), 1837. <https://doi.org/10.3390/FOODS10081837/S1>
- Castelluccio, C., Paganga, G., Melikian, N., Bolwell, G.P., Pridham, J., Sampson, J., Rice-Evans, C. (1995). Antioxidant potential of intermediates in phenylpropanoid metabolism in higher plants. *FEBS Lett.* 368 :188–192.
- Chakraborty, M., & Mitra, A. (2008). The antioxidant and antimicrobial properties of the methanolic extract from *Cocos nucifera* mesocarp. *Food Chemistry*, 107, 994–999. <https://doi.org/10.1016/j.foodchem.2007.08.083>
- Channaiah, L. H., Michael, M., Acuff, J. C., Phebus, R. K., Thippareddi, H., & Milliken, G. (2021). Thermal inactivation of *Salmonella* during hard and soft cookies baking process. *Food Microbiology*, 100. <https://doi.org/10.1016/j.fm.2021.103874>
- Chauhan, A., Saxena, D. C., & Singh, S. (2016). Physical, textural, and sensory characteristics of wheat and amaranth flour blend cookies. *Cogent Food & Agriculture*, 2(1). <https://doi.org/10.1080/23311932.2015.1125773>
- Chemat, F., Abert Vian, M., Fabiano-Tixier, A. S., Nutrizio, M., Režek Jambrak, A., Muneke, P. E. S., Lorenzo, J. M., Barba, F. J., Binello, A., & Cravotto, G. (2020). A review of sustainable and intensified techniques for extraction of food and natural products. *Green Chemistry*, 22(8), 2325–2353. <https://doi.org/10.1039/c9gc03878g>
- Chemat, F., Rombaut, N., Sicaire, A., Meullemiestre, A., & Abert-vian, M. (2017). Ultrasound assisted extraction of food and natural products. Mechanisms, techniques, combinations, protocols and applications. A review. *Ultrasonics - Sonochemistry*, 34, 540–560. <https://doi.org/10.1016/j.ultsonch.2016.06.035>
- Cheng, Y., Xu, Q., Liu, J., Zhao, C., Xue, F., & Zhao, Y. (2014). Decomposition of five phenolic compounds in high temperature water. *Journal of the Brazilian Chemical Society*, 25(11), 2102–2107. <https://doi.org/10.5935/0103-5053.20140201>
- Christodoulou, M. C., Orellana Palacios, J. C., Hesami, G., Jafarzadeh, S., Lorenzo, J. M., Domínguez, R., Moreno, A., & Hadidi, M. (2022). Spectrophotometric Methods for Measurement of Antioxidant Activity in Food and Pharmaceuticals. In *Antioxidants* (Vol. 11, Issue 11). MDPI. <https://doi.org/10.3390/antiox11112213>
- Chumroenvidhayakul, S., Thilavech, T., Abeywardena, M., & Adisakwattana, S. (2023). Dragon Fruit Peel Waste (*Hylocereus undatus*) as a Potential Ingredient for Reducing Lipid Peroxidation, Dietary Advanced Glycation

- End Products, and Starch Digestibility in Cookies. *Antioxidants*, 12(5). <https://doi.org/10.3390/antiox12051002>
- Cosme, F., Pinto, T., Vilela, A. (2018). Phenolic Compounds and Antioxidant Activity in Grape Juices: A Chemical and Sensory View. *Beverages*, 4, 22.
- das Chagas, E. G. L., Vanin, F. M., dos Santos Garcia, V. A., Yoshida, C. M. P., & de Carvalho, R. A. (2021). Enrichment of antioxidants compounds in cookies produced with camu-camu (*Myrciaria dubia*) coproducts powders. *LWT*, 137, 110472. <https://doi.org/10.1016/J.LWT.2020.110472>
- Das, R. R., Rahman, M. A., Al-Araby, S. Q., Islam, M. S., Rashid, M. M., Babteen, N. A., Alnajeebi, A. M., Alharbi, H. F. H., Jeandet, P., Rafi, M. K. J., Siddique, T. A., Uddin, M. N., & Zakaria, Z. A. (2021). The Antioxidative Role of Natural Compounds from a Green Coconut Mesocarp Undeniably Contributes to Control Diabetic Complications as Evidenced by the Associated Genes and Biochemical Indexes. *Oxidative Medicine and Cellular Longevity*, 2021. <https://doi.org/10.1155/2021/9711176>
- de Carvalho Silva, N., Kryslle do Carmo Barros, E., Lúcia Fernandes Pereira, A., de Oliveira Lemos, T., & Kelly Gonçalves Abreu, V. (2019). Effect of Babassu (*Orbignya phalerata*) Mesocarp Flour on the Sensorial Properties and Nutritional Value of Cookies. *Journal of Food and Nutrition Research*, 7(11), 805–809. <https://doi.org/10.12691/jfnr-7-11-8>
- De Falco, B., Grauso, L., Fiore, A., Bonanomi, G., Lanzotti, V. (2022) Metabolomics and Chemometrics of Seven Aromatic Plants: Carob, Eucalyptus, Laurel, Mint, Myrtle, Rosemary and Strawberry Tree. *Phytochem. Anal.* 33, 696–709.
- DebMandal, M., & Mandal, S. (2011). Coconut (*Cocos nucifera* L.: Arecaceae): In health promotion and disease prevention. *Asian Pacific Journal of Tropical Medicine*, 4(3), 241–247. [https://doi.org/10.1016/S1995-7645\(11\)60078-3](https://doi.org/10.1016/S1995-7645(11)60078-3)
- Del Rio D, Rodriguez-Mateos A, Spencer JP, Tognolini M, Borges G, Crozier A. (2013). Dietary (poly)phenolics in human health: structures, bioavailability, and evidence of protective effects against chronic diseases. *Antioxid Redox Signal.* 18(14):1818-92. doi: 10.1089/ars.2012.4581.
- del Río, J. C., Rencoret, J., Gutiérrez, A., Kim, H., & John, R. (2017). Hydroxystilbenes are Monomers in Palm Fruit Endocarp Lignins. *Plant Physiology*, 174(4), 2072–2082. <https://doi.org/10.1104/pp.17.00362>
- Derakhshan, Z., Ferrante, M., Tadi, M., Ansari, F., Heydari, A., Sadat, M., Oliveri, G., & Khalili, E. (2018). Antioxidant activity and total phenolic content of ethanolic extract of pomegranate peels, juice and seeds. *Food and Chemical Toxicology*, 114(January), 108–111. <https://doi.org/10.1016/j.fct.2018.02.023>
- Deutch, C.E. (2018). Browning in apples: exploring the biochemical basis of an easily- observable phenotype. *Biochem. Mol. Biol. Educ.* 46, 76–82. <https://doi.org/10.1002/bmb.21083>.

- Dey, G., Sachan, A., Ghosh, S., & Mitra, A. (2003). Detection of major phenolic acids from dried mesocarpic husk of mature coconut by thin layer chromatography. *Industrial Crops and Products*, 18, 171–176. [https://doi.org/10.1016/S0926-6690\(03\)00056-6](https://doi.org/10.1016/S0926-6690(03)00056-6)
- Dhingra, D., Michael, M., Rajput, H., & Patil, R. T. (2012). Dietary fibre in foods: a review. *Journal of Food Science and Technology*, 49(3), 255–266. <http://dx.doi.org/10.1007/s13197-011-0365-5>. PMID:23729846.
- Durackova, Z. (2008). *Oxidants, Antioxidants and Oxidative Stress*. in: Anna Gvozdzakova (Ed.) *Mitochondrial Medicine: Mitochondrial Metabolism, Diseases, Diagnosis and Therapy*. Springer-Verlag New York, LLC.
- Dzah, C. S., Duan, Y., Zhang, H., Wen, C., Zhang, J., Chen, G., & Ma, H. (2020). The effects of ultrasound assisted extraction on yield, antioxidant, anticancer and antimicrobial activity of polyphenol extracts: A review. *Food Bioscience*, 35.
- Działo M, Mierziak J, Korzun U, Preisner M, Szopa J, Kulma A. (2016). The Potential of Plant Phenolics in Prevention and Therapy of Skin Disorders. *Int J Mol Sci*. 17(2):160. doi: 10.3390/ijms17020160.
- Dziki, D., Lisiecka, K., Gawlik-Dziki, U., Różyło, R., Krajewska, A., & Cacak-Pietrzak, G. (2022). Shortbread Cookies Enriched with Micronized Oat Husk: Physicochemical and Sensory Properties. *Applied Sciences (Switzerland)*, 12(24). <https://doi.org/10.3390/app122412512>
- Elsbaey, M., & Abdel, B. F. (2017). Coconut Waste as a Potential Source for Cytotoxic and Antioxidant Compounds. *International Journal of Pharmacognosy and Phytochemical Research*, 9(10), 1288–1292. <https://doi.org/10.25258/phyto.v9i10.10451>
- Elsbaey, M., Jie, B., Tanaka, C., Kato, H., Tsukamoto, S., Usui, K., Hirai, G., & Miyamoto, T. (2019). Nuciferols A and B: Novel sesquienolignans from *Cocos nucifera*. *Tetrahedron Letters*, 60(33), 150948. <https://doi.org/10.1016/j.tetlet.2019.150948>
- Emojewwe, V. (2012). Hypoglycaemic Effects of *Cocos Nucifera* (Coconut) Husk Extract On Alloxan Induced Female Diabetic Wistar Rats. *Continental Journal Medical Research*, 6(2), 5–10. <https://doi.org/10.5707/cjmedres.2012.6.2.5.10>
- Emojewwe, V. (2013). *Cocos nucifera* (Coconut) Fruit: A review of its medical properties. *Advances in Agriculture, Sciences and Engineering Research*, 3(3), 718–723. <https://doi.org/10.13140/RG.2.2.21506.53446>
- Espada-bellido, E., Ferreiro-gonzález, M., Carrera, C., Palma, M., Barroso, C. G., & Barbero, G. F. (2017). Optimization of the ultrasound-assisted extraction of anthocyanins and total phenolic compounds in mulberry (*Morus nigra*) pulp. *Food Chemistry*, 219, 23–32. <https://doi.org/10.1016/j.foodchem.2016.09.122>
- Esquenazi, D., Wigg, M. D., Miranda, M. M. F. S., Rodrigues, H. M., Tostes, J. B. F., Rozental, S., Antonio, J. R., & Alviano, C. S. (2002). Antimicrobial and antiviral activities of polyphenolics from *Cocos nucifera* Linn. (Palmae) husk fiber extract. *Research in Microbiology*, 153, 647–652.

- European Union (EU). Closing the Loop—An EU Action Plan for the Circular Economy. 2015. Available online: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52015DC0614> (accessed on 20 September 2023).
- Falowo, A. B., Fayemi, P. O., & Muchenje, V. (2014). Natural antioxidants against lipid – protein oxidative deterioration in meat and meat products: A review. 64, 171–181.
- FAOSTAT. (n.d.-a). Retrieved October 27, 2022, from <https://www.fao.org/faostat/en/#data/QCL>
- FAOSTAT. (n.d.-b). No Title. Retrieved March 31, 2022, from <https://www.fao.org/faostat/en/#data/QCL>
- Felli, R., Yang, T. A., Wan Abdullah, W. N., & Zzaman, W. (2018). Effects of incorporation of jackfruit rind powder on chemical and functional properties of bread. *Tropical Life Sciences Research*, 29(1), 113-126. <http://dx.doi.org/10.21315/tlsr2018.29.1.8>. PMID:29644019.
- Food and Agriculture Organization of the United Nations (FAO). Global Food Losses and Food Waste. Available online: <https://www.fao.org/3/mb060e/mb060e00.htm> (accessed on 20 September 2023).
- Food and Drug Administration. (2013). FDA (2013) Code of Federal Regulations.
- Gagnetten, M., Archaina, D. A., Salas, M. P., Leiva, G. E., Salvatori, D. M., & Schebor, C. (2021). Gluten-free cookies added with fibre and bioactive compounds from blackcurrant residue. *International Journal of Food Science and Technology*, 56(4), 1734–1740. <https://doi.org/10.1111/ijfs.14798>
- Gao, Y., Cao, Q. Q., Chen, Y. H., Granato, D., Wang, J. Q., Yin, J. F., Zhang, X. B., Wang, F., Chen, J. X., & Xu, Y. Q. (2022). Effects of the Baking Process on the Chemical Composition, Sensory Quality, and Bioactivity of Tieguanyin Oolong Tea. *Frontiers in Nutrition*, 9. <https://doi.org/10.3389/fnut.2022.881865>
- Gebreselassie, E., & Clifford, H. (2016). Oxidative Stability and Shelf Life of Crackers, Cookies, and Biscuits. *Oxidative Stability and Shelf Life of Foods Containing Oils and Fats*, 461–478. <https://doi.org/10.1016/B978-1-63067-056-6.00012-4>
- Ghasemzadeh, A., Ghasemzadeh, N. (2011). Flavonoids and phenolic acids: Role and biochemical activity in plants and human. *Journal of Medicine Plants*, 5 : 6697–6703.
- Ghotra, B.S., Dyal, S.D. & Narine, S.S. (2002). Lipid shortenings: a review. *Food Research International*, 35, 1015–1048.
- Giuberti, G., Rocchetti, G., Sigolo, S., Fortunati, P., Lucini, L., & Gallo, A. (2018). Exploitation of alfalfa seed (*Medicago sativa* L.) flour into gluten-free rice cookies: Nutritional, antioxidant and quality characteristics. *Food Chemistry*, 239, 679–687. <https://doi.org/10.1016/j.foodchem.2017.07.004>
- Goff, H. D., & Guo, Q. (2019). Chapter 1: The Role of Hydrocolloids in the Development of Food Structure. *Food Chemistry, Function and Analysis*, 2020-January (18), 1–28. <https://doi.org/10.1039/9781788016155-00001>

- Goldsmith, C. D., Vuong, Q. V., Stathopoulos, C. E., Roach, P. D., & Scarlett, C. J. (2018). Ultrasound increases the aqueous extraction of phenolic compounds with high antioxidant activity from olive pomace. *LWT - Food Science and Technology*, 89(June 2017), 284–290. <https://doi.org/10.1016/j.lwt.2017.10.065>
- Goodrich, J., Carpenter, R., Coen, E.S., Lane, C., (1991). A common gene regulates pigmentation pattern in diverse plant species. *Cell* 68, 955–964.
- Gordon M.H. (2001). *Antioxidants in Food*. Woodhead Publishing; Sawston, UK.
- Guadalupe, M., Ramírez, L., Guillermo, H., Ruiz, O., Navarro, F., Alejandra, M., Gallegos, C., & García Enriquez, S. (2012). Evaluation Of Fungi Toxic Activity Of Tannins And A Tannin-Copper Complex From The Mesocarp Of Cocos Nucifera Linn. *Wood and Fiber Science*, 44(4), 357–364.
- Gulcin, I. (2020). Antioxidants and Antioxidant Methods: An Updated Overview. *Arch. Toxicol.* 94, 651–715.
- Hadidi, M., Rostamabadi, H., Moreno, A., Jafari, S.M. (2022). Nanoencapsulation of Essential Oils from Industrial Hemp (*Cannabis Sativa* L.) by-Products into Alfalfa Protein Nanoparticles. *Food Chem.*, 386, 132765.
- Hadnadev, M., Doki, L., Hadnadev, T. D., Pajin, B. & Krstono, V. (2011). The impact of maltodextrin-based fat mimetics on rheological and textural characteristics of edible vegetable fat. *Journal of Texture Studies*, 42, 404–411.
- Harish, T., Bhuvaneshwari, G., Jagadeesh, S. L., & Terdal, D. (2022). Development of Cookies Incorporated with Pomegranate Seed Powder and Defatted Soybean Flour. *International Journal of Fruit Science*, 22(1), 504–513. <https://doi.org/10.1080/15538362.2022.2066044>
- Hassan, R. M., Fhadhila, A., Kawasaki, N., & Hassan, N. A. (2018). Antioxidant Activity of Natural Pigment from Husk of Coconut. *Tropical Agricultural Science*, 41(1), 441–452.
- Hassan, R. M., Hassan, N. A., Fhadhila, A., & Yusoff, A. M. (2018). Ultrasound-assisted extraction of natural colourant from husk of Cocos nucifera: A comparison with agitated-bed extraction. *Pertanika Journal of Science and Technology*, 26, 1039–1052. <https://www.researchgate.net/publication/326983431>
- He, J., Zhu, Q., Dong, X., Pan, H., Chen, J., Zheng, Z.P. (2017). Oxyresveratrol and ascorbic acid O/W microemulsion: Preparation, characterization, anti-isomerization and potential application as antibrowning agent on fresh-cut lotus root slices. *Food Chem.*, 214, 269–276.
- Heenataj, B., Kushmitha, V., Babu, N. G. R., & Seethalakshmi, I. (2017). Antioxidants and Cytotoxicity Analysis of Coconut Husk Extract. *International Journal of Engineering Research and Management (IJERM)*, 4(08), 5–9.
- Hegazy, E. M., Ibrahim, N. M., & Saleh, N. S. M. (2020). Determination of antioxidant and antifungal activities in cookies fortified with solar dried prickly pear peels powder. *Pakistan Journal of Biological Sciences*, 23(5), 590–601. <https://doi.org/10.3923/pjbs.2020.590.601>

- Hikmawanti, N. P. E., Wiyati, T., Abdul Muis, M., Nurfaizah, F. A., & Septiani, W. (2021). Total Flavonoids Content of Polar Extracts of *Cayratia trifolia* Leaves. *IOP Conference Series: Earth and Environmental Science*, 819(1). <https://doi.org/10.1088/1755-1315/819/1/012056>
- Im, C. Y., Kim, M. H., & Kang, W. W. (2017). Quality characteristics of cookies added with Takju pomace powder. *Korean Journal of Food Preservation*, 24(1), 8–12. <https://doi.org/10.11002/kjfp.2017.24.1.8>
- Ismail, B. B., Guo, M., Pu, Y., Wang, W., & Ye, X. (2018). Valorization of baobab (*Adansonia digitata*) seeds by ultrasound assisted extraction of polyphenolics. Optimization and comparison with conventional methods. *Ultrasonics - Sonochemistry*, November, 0–1. <https://doi.org/10.1016/j.ultsonch.2018.11.023>
- Ismail, T., Akhtar, S., Riaz, M., & Ismail, A. (2014). Effect of pomegranate peel supplementation on nutritional, organoleptic and stability properties of cookies. *International Journal of Food Sciences and Nutrition*, 65(6), 661–666. <https://doi.org/10.3109/09637486.2014.908170>
- Ismail, T., Akhtar, S., Riaz, M., Hameed, A., Afzal, K., & Sattar Sheikh, A. (2016). Oxidative and Microbial Stability of Pomegranate Peel Extracts and Bagasse Supplemented Cookies. *Journal of Food Quality*, 39(6), 658–668. <https://doi.org/10.1111/jfq.12231>
- Jaouhari, Y., Travaglia, F., Giovannelli, L., Picco, A., Oz, E., Oz, F., & Bordiga, M. (2023). From Industrial Food Waste to Bioactive Ingredients: A Review on the Sustainable Management and Transformation of Plant-Derived Food Waste. *Foods*, 12(11). <https://doi.org/10.3390/foods12112183>
- Javier Cortés-Rivera, H., Javier Blancas-Benitez, F., del Carmen Romero-Islas, L., Gutiérrez-Martinez, P., & Ramón González-Estrada, R. (2019). In vitro evaluation of residues of coconut (*Cocos nucifera* L.) aqueous extracts, against the fungus *Penicillium italicum*. *Emir. J. Food Agric* •, 31. <http://www.ejfa.me/>
- Jayaprakasha, G. K., & Rao, L. J. (2000). Phenolic Constituents from Lichen *Parmotrema stuppeum* (Nyl.) Hale and Their Antioxidant Activity.
- Jeong, I. J., & Kim, K. J. (2009). An interactive desirability function method to multiresponse optimization. *European Journal of Operational Research*, 195(2), 412–426. <https://doi.org/10.1016/j.ejor.2008.02.018>
- Jiménez-Morales, K., Castañeda-Pérez, E., Herrera-Pool, E., Ayora-Talavera, T., Cuevas-Bernardino, J. C., García-Cruz, U., Pech-Cohuo, S. C., & Pacheco, N. (2022). Ultrasound-Assisted Extraction of Phenolic Compounds from Different Maturity Stages and Fruit Parts of *Cordia dodecandra* A. DC.: Quantification and Identification by UPLC-DAD-ESI-MS/MS. *Agriculture (Switzerland)*, 12(12). <https://doi.org/10.3390/agriculture12122127>
- Johar, M. F., & Ariff, T. F. (2022). Mechanical and Microstructural Properties of Hybrid Bio-Composites using Microwaved Coconut Fibre and Rice Husk. *Journal of Physics: Conference Series*, 2199(1). <https://doi.org/10.1088/1742-6596/2199/1/012015>

- Jose, M., Himashree, P., Sengar, A. S., & Sunil, C. K. (2022). Valorization of food industry by-product (Pineapple Pomace): A study to evaluate its effect on physicochemical and textural properties of developed cookies. *Measurement: Food*, 6, 100031. <https://doi.org/10.1016/j.meafoo.2022.100031>
- Kakkar, S., & Bais, S. (2014). A Review on Protocatechuic Acid and Its Pharmacological Potential. *ISRN Pharmacology*, 2014, 1–9. <https://doi.org/10.1155/2014/952943>
- Kalina, S., & Navaratne, S. B. (2019). Analysis of Antioxidant Activity and Texture Profile of Tender-Young and King Coconut (*Cocos nucifera*) Mesocarps under Different Treatments and the Possibility to Develop a Food Product. *International Journal of Food Science*, 1, 1–7.
- Kedare, S.B., Singh, R., (2011). Genesis and development of DPPH method of antioxidant assay. *J. Food Sci. Technol.* 48 (4), 412–422.
- Kibria, A. A., Kamrunnessa, & Rahman, M. Md. (2018). Extraction And Evaluation Of Phytochemicals From Green Coconut (*Cocos Nucifera*) Shell. *Malaysian Journal of Halal Research (MJHR)*, 1(2), 19–22.
- Kim, J. M., Kang, J. Y., Park, S. K., Han, H. J., Lee, K. Y., Kim, A. N., Kim, J. C., Choi, S. G., & Heo, H. J. (2020). Effect of storage temperature on the antioxidant activity and catechins stability of Matcha (*Camellia sinensis*). *Food Science and Biotechnology*, 29(9), 1261–1271. <https://doi.org/10.1007/s10068-020-00772-0>
- Kruczek, M., Gumul, D., Korus, A., Buksa, K., & Ziobro, R. (2023). Phenolic Compounds and Antioxidant Status of Cookies Supplemented with Apple Pomace. *Antioxidants*, 12(2). <https://doi.org/10.3390/antiox12020324>
- Kuchtová, V., Kohajdová, Z., Karovičová, J., & Lauková, M. (2018). Physical, Textural and Sensory Properties of Cookies Incorporated with Grape Skin and Seed Preparations. *Polish Journal of Food and Nutrition Sciences*, 68(4), 309–317. <https://doi.org/10.2478/pjfn-2018-0004>
- Kumar, K., Srivastav, S., & Sharanagat, V. S. (2021). Ultrasound assisted extraction (UAE) of bioactive compounds from fruit and vegetable processing by-products: A review. *Ultrasonics-Sonochemistry*.
- Kumari, N., Sindhu, S. C., Rani, V., & Kumari, V. (2021). Shelf-Life Evaluation of Biscuits and Cookies Incorporating Germinated Pumpkin Seed Flour. *International Journal of Current Microbiology and Applied Sciences*, 10(01), 1436–1443. <https://doi.org/10.20546/ijcmas.2021.1001.170>
- Laguerre M, Lecomte J, Villeneuve P. (2007). Evaluation of the ability of antioxidants to counteract lipid oxidation: existing methods, new trends and challenges. *Prog Lipid Res*, 46(5):244-82. doi: 10.1016/j.plipres.2007.05.002.
- Le Floch, A., Jourdes, M., Teissedre, P.L. (2015). Polysaccharides and lignin from oak wood used in cooperage: Composition, interest, assays: A review. *Carbohydrate Research*. 417: 94–102
- Leliana, L., Setyaningsih, W., Palma, M., Supriyadi, & Santoso, U. (2022b). Antioxidant Activity of Aqueous and Ethanolic Extracts of Coconut

- (Cocos nucifera) Fruit By-Products. *Agronomy*, 12(5), 1102. <https://doi.org/10.3390/agronomy12051102>
- Leliana, L., Setyaningsih, W., Palma, M., Supriyadi, S., & Santoso, U. (2022a). Optimization of Ultrasound-Assisted Extraction from Young Coconut Mesocarp in the Rapid Extraction of Phenolic Compounds and Antioxidant Activity. *Agronomy*, 12(11), 2798. <https://doi.org/10.3390/agronomy12112798>
- Leopoldini, M., Russo, N., & Toscano, M. (2011). The molecular basis of working mechanism of natural polyphenolic antioxidants. *Food Chemistry*, 125(2), 288–306. <https://doi.org/10.1016/j.foodchem.2010.08.012>
- Lima, E. B. C., Sousa, C. N. S., Meneses, L. N., Ximenes, N. C., & Júnior, M. A. S. (2015). *Cocos nucifera* L. (Arecaceae): A phytochemical and pharmacological review. 48, 953–964.
- M.M. Doweidar, M., & Mohamed El-Said, N. (2011). Production of Crackers Supplemented with Prickly Pear Fruit Components (*Opuntia Ficus-Indica* L.). *Egyptian Journal of Applied Science*, 3(26), 63–85. <https://doi.org/10.13140/RG.2.2.35300.50569>
- Mai, T. H. A., Tran, T. T. T., & Le, V. V. M. (2023). Effects of Pitaya Peel Supplementation on Nutritional Quality, Overall Sensory Acceptance, In Vitro Glycemic Index, and Antioxidant Release from Fiber-Enriched Cookies. *Journal of Food Quality*, 1–10. <https://doi.org/10.21203/rs.3.rs-2322871/v1>
- Majidiyan, N., Hadidi, M., Azadikhah, D., Moreno, A. (2022). Protein Complex Nanoparticles Reinforced with Industrial Hemp Essential Oil: Characterization and Application for Shelf-Life Extension of Rainbow Trout Fillets. *Food Chem. X*, 13, 100202.
- Manach, C., Scalbert, A., Morand, C., Remesy, C., Jimenez, L. (2004). Polyphenols: Food sources and bioavailability. *American Journal Clinical Nutrition*. 79:727–747.
- Maskey, B., Subedi, S., & Shrestha, N. K. (2020). Effect of Incorporation of Jackfruit (*Artocarpus heterophyllus*) Seed Flour on the Quality of Cookies. *Dristikon: A Multidisciplinary Journal*, 10(1), 60–72. <https://doi.org/10.3126/dristikon.v10i1.34541>
- Maurya, D. K., & Devasagayam, T. P. A. (2010). Antioxidant and prooxidant nature of hydroxycinnamic acid derivatives ferulic and caffeic acids. *Food and Chemical Toxicology*, 48(12), 3369–3373. <https://doi.org/10.1016/j.fct.2010.09.006>
- Mildner-Szkudlarz, S., Bajerska, J., Zawirska-Wojtasiak, R., & Górecka, D. (2013). White grape pomace as a source of dietary fibre and polyphenols and its effect on physical and nutraceutical characteristics of wheat biscuits. *Journal of the Science of Food and Agriculture*, 93(2), 389–395. <https://doi.org/10.1002/JSFA.5774>
- Moon, J.K., Shibamoto, T. (2004). Antioxidant Assays for Plant and Food Components. *J. Agric. Food Chem.* 57, 1655–1666

- Morbeck, F. L., Lelis, R. C. C., Schueler, M. V. E., Santos, W. A., Sampaio, D. A., Silva, B. C., Morais, R. de M., & Santana, G. M. (2019). Extraction and evaluation of tannin of coconut mesocarp. *Revista Materia*, 24(3).
- Msaddak, L., Siala, R., Fakhfakh, N., Ayadi, M. A., Nasri, M., & Zouari, N. (2015). Cladodes from prickly pear as a functional ingredient: Effect on fat retention, oxidative stability, nutritional and sensory properties of cookies. *International Journal of Food Sciences and Nutrition*, 66(8), 851–857. <https://doi.org/10.3109/09637486.2015.1095862>
- Mudgil, D., & Barak, S. (2013). Composition, properties and health benefits of indigestible carbohydrate polymers as dietary fiber: a review. *International Journal of Biological Macromolecules*, 61, 1-6. <http://dx.doi.org/10.1016/j.ijbiomac.2013.06.044>. PMID:23831534.
- Muflihah, Y. M., Gollavelli, G., & Ling, Y.-C. (2021). Correlation Study of Antioxidant Activity with Phenolic and Flavonoid Compounds in 12 Indonesian Indigenous Herbs. *Antioxidants*, 10(10), 1530. <https://doi.org/10.3390/antiox10101530>
- Munteanu, I.G.; Apetrei, C. (2021). Analytical Methods Used in Determining Antioxidant Activity: A Review. *Int. J. Mol. Sci.*, 22,3380.
- Muritala, H. F., Akolade, J. O., Akande, S. A., Abdulazeez, T. A., Aladodo, R. A., & Bello, B. A. (2018). Antioxidant and alpha- \rightarrow amylase inhibitory potentials of *Cocos nucifera* husk. *Food Science and Nutrition*, June. <https://doi.org/10.1002/fsn3.741>
- Naik, A. S., Suryawanshi, D., Kumar, M., & Waghmare, R. (2021). Ultrasonic treatment: A cohort review on bioactive compounds, allergens and physico-chemical properties of food. In *Current Research in Food Science* (Vol. 4, pp. 470–477). Elsevier B.V. <https://doi.org/10.1016/j.crfs.2021.07.003>
- Naik, B., Kumar, V., & Gupta, A. K. (2023). Valorization of tender coconut mesocarp for the formulation of ready-to-eat dairy-based dessert (Kheer): Utilization of industrial by-product. *Journal of Agriculture and Food Research*, 12. <https://doi.org/10.1016/j.jafr.2023.100572>
- Najjar, Z., Alkaabi, M., Alketbi, K., Stathopoulos, C., & Ranasinghe, M. (2022a). Physical Chemical and Textural Characteristics and Sensory Evaluation of Cookies Formulated with Date Seed Powder. *Foods*, 11(3). <https://doi.org/10.3390/foods11030305>
- Najjar, Z., Kizhakkayil, J., Shakoor, H., Platat, C., Stathopoulos, C., & Ranasinghe, M. (2022a). Antioxidant Potential of Cookies Formulated with Date Seed Powder. *Foods* 2022, Vol. 11, Page 448, 11(3), 448. <https://doi.org/10.3390/FOODS11030448>
- Nakov, G., Brandolini, A., Hidalgo, A., Ivanova, N., Jukić, M., Komlenić, D. K., & Lukinac, J. (2020a). Influence of apple peel powder addition on the physico-chemical characteristics and nutritional quality of bread wheat cookies. *Food Science and Technology International*, 26(7), 574–582. <https://doi.org/10.1177/1082013220917282>
- Namal Senanayake, S. P. J. (2013). Green tea extract: Chemistry, antioxidant properties and food applications - A review. In *Journal of Functional*

- Foods (Vol. 5, Issue 4, pp. 1529–1541).
<https://doi.org/10.1016/j.jff.2013.08.011>
- Naris, S. (2022). Brief Note on Antioxidant Compounds in Eggs. *Oxidants and Antioxidants in Medical Science*, 11(5), 1.
- Natukunda, S., Muyonga, J. H., & Mukisa, I. M. (2016). Effect of tamarind (*Tamarindus indica* L.) seed on antioxidant activity, phytochemicals, physicochemical characteristics, and sensory acceptability of enriched cookies and mango juice. *Food Science and Nutrition*, 4(4), 494–507.
<https://doi.org/10.1002/fsn3.311>
- Nawar, W.F. (1996). Lipids. in: Fennema, O (Ed.). *Food chemistry*. 3rd ed., p. 225-320. Marcel Dekker, Inc., NY.
- Nerdy, N., Manurung, K. (2018). Spectrophotometric Method for Antioxidant Activity Test and Total Phenolic Determination of Red Dragon Fruit Leaves and White Dragon Fruit Leaves. *Rasayan J. Chem.*, 11, 1183–1192. [CrossRef]
- Nguyen, T. M. C., Gavahian, M., & Tsai, P. J. (2021). Ultrasound-assisted extraction of Gac (*Momordica cochinchinensis* Spreng.) leaves: Effect of maturity stage on phytochemicals and carbohydrate-hydrolyzing enzymes inhibitory activity. *Italian Journal of Food Science*, 33, 34–42.
<https://doi.org/10.15586/ijfs.v33iSP1.1987>
- Nikhontha, K., Krisanapook, K., & Imsabai, W. (2019). Fruit Growth, Endocarp Lignification, Boron and Calcium Concentrations In Nam Hom (Aromatic) Coconut During Fruit Development. In J. ISSAAS (Vol. 25, Issue 1).
- Nimse, S.B., Pal, D. (2015). Free Radicals, Natural Antioxidants, and Their Reaction Mechanisms. *RSC Adv.*, 5, 27986–28006. [CrossRef]
- Okuda, T. (2005). Systematics and health effects of chemically distinct tannins in medicinal plants. *Phytochemistry*, 66: 2012–2031
- Oladunjoye, A. O., Ezianya, S. C., & Aderibigbe, O. R. (2021). Proximate composition, physical, sensory and microbial properties of wheat-hog plum bagasse composite cookies. *LWT*, 141.
<https://doi.org/10.1016/j.lwt.2021.111038>
- Oliveira, M. S. B. dos, Valentim, I. B., Vasconcelos, C. C. de, Omena, C. M. B., Bechara, E. J. H., Costa, J. G. da, Freitas, M. D. L., Sant’Ana, A. E. G., & Goulart, M. O. F. (2012). *Cocos nucifera* Linn. (Palmae) Husk Fiber Ethanolic Extract: Antioxidant Capacity and Electrochemical Investigation. *Combinatorial Chemistry & High Throughput Screening*, 16(1). <https://doi.org/10.2174/1386207311316020006>
- Onyechi, O., Elijah, P., & Nkechi, J. (2010). Phytochemical Analysis of *Cocos nucifera* L. *Journal of Pharmacy Research*, 3(2), 280–286.
- Pandey, A., Belwal, T., Sekar, K. C., Bhatt, I. D., & Rawal, R. S. (2018). Optimization of ultrasonic-assisted extraction (UAE) of phenolics and antioxidant compounds from rhizomes of *Rheum moorcroftianum* using response surface methodology (RSM). *Industrial Crops & Products*, 119(December 2017), 218–225.
<https://doi.org/10.1016/j.indcrop.2018.04.019>

- Pareyt, B., Talhaoui, F., Kerckhofs, G., Brijs, K., Goesaert, H., Wevers, M., & Delcour, J. A. (2009). The role of sugar and fat in sugar-snap cookies: Structural and textural properties. *Journal of Food Engineering*, 90(3), 400–408. <https://doi.org/10.1016/j.jfoodeng.2008.07.010>
- Pasandideh, S. H. R., & Niaki, S. T. A. (2006). Multi-response simulation optimization using genetic algorithm within desirability function framework. *Applied Mathematics and Computation*, 175(1), 366–382. <https://doi.org/10.1016/j.amc.2005.07.023>
- Patil, S., Rao, B., Matondkar, M., Bhushette, P., & Sonawane, S. K. (2022). A Review On Understanding Of Egg Yolk As Functional Ingredients. *Journal of Microbiology, Biotechnology and Food Sciences*, 11(4). <https://doi.org/10.55251/jmbfs.4627>
- Perera, C., Meegahakumbura, M. K., Dissanayaka, A. C., & Perera, L. (2014). Quantitative Characterization of Nut Yield and Fruit Components in Indigenous Coconut Germplasm in Sri Lanka. *International Journal of Biodiversity*, September. <https://doi.org/10.1155/2014/740592>
- Perron, N. R., & Brumaghim, J. L. (2009). A review of the antioxidant mechanisms of polyphenol compounds related to iron binding. *Cell Biochemistry and Biophysics*, 53(2), 75–100.
- Perron, N. R., Wang, H. C., DeGuire, S. N., Jenkins, M., Lawson, M., & Brumaghim, J. L. (2010). Kinetics of iron oxidation upon polyphenol binding. *Dalton Transactions*, 39(41), 9982–9987.
- Prades, A., Dornier, M., Diop, N., & Pain, J. P. (2012). Coconut water uses, composition and properties: A review. In *Fruits* (Vol. 67, Issue 2, pp. 87–107). <https://doi.org/10.1051/fruits/2012002>
- Prakash, A., Vadivel, V., Banu, S. F., Nithyanand, P., Lalitha, C., & Brindha, P. (2018). Evaluation of antioxidant and antimicrobial properties of solvent extracts of agro-food by-products (cashew nut shell, coconut shell and groundnut hull). *Agriculture and Natural Resources*, 52, 451–459.
- Raharjo, S. (2006). *Kerusakan Oksidatif Pada Makanan*. Gadjah Mada University Press, Yogyakarta.
- Rajiv, J., Indrani, D., Prabasankar, P., Rao, G., (2012). Rheology fatty acid profile and storage characteristics of cookies as influenced by flax seed (*Linum usitatissimum*). *Journal of Food Science and Technology*, 49 (5), 587-595.
- Reddy, G.M., Rao, V., Sarma, D., Reddy, T.K., Subramanyam, P., Naidu, M.D., (2012). Evaluation of antioxidant activity index (AAI) by the 2, 2-diphenyl-1-picryl hydrazyl method of 40 medicinal plants. *J. Med. Plants Res.* 6 (24), 4082–4086.
- Rhile, I. J., Markle, T. F., Nagao, H., DiPasquale, A. G., Lam, O. P., Lockwood, M. A., ... Mayer, J. M. (2006). Concerted proton– electron transfer in the oxidation of hydrogen-bonded phenols. *Journal of the American Chemical Society*, 128(18), 6075–6088.
- Ribeiro, J. S., José, M., Cordeiro, M., Kaully, L., Silva, R., Carla, L., Pereira, L., Alves, I., Caetano, S., & Viana, M. (2019). Natural antioxidants used in meat products: A brief review. 148(April 2018), 181–188.

- Rodrigues, S., & Pinto, G. A. S. (2007). Ultrasound extraction of phenolic compounds from coconut (*Cocos nucifera*) shell powder. 80, 869–872. <https://doi.org/10.1016/j.jfoodeng.2006.08.009>
- Rodríguez García, S. L., & Raghavan, V. (2021). Green extraction techniques from fruit and vegetable waste to obtain bioactive compounds—A review. *Critical Reviews in Food Science and Nutrition*, 0(0), 1–21. <https://doi.org/10.1080/10408398.2021.1901651>
- Sadeer, N.B., Montesano, D., Albrizio, S., Zengin, G., Mahomoodally, M.F. (2020). The Versatility of Antioxidant Assays in Food Science and Safety—Chemistry, Applications, Strengths, and Limitations. *Antioxidants*, 9, 709.
- Sahai, Ms. M. (2018). Development of Vegetable Seeds Incorporated Cookies: Nutrient Composition, Functional Properties, Mineral Analysis and Sensory Evaluation. *International Journal of Environment, Agriculture and Biotechnology*, 3(3), 916–927. <https://doi.org/10.22161/ijeab/3.3.26>
- Sánchez-Alonso, I., Careche, M., Moreno, P., González, M. J., & Medina, I. (2011). Testing caffeic acid as a natural antioxidant in functional fish-fibre restructured products. *LWT-Food Science and Technology*, 44(4), 1149–1155. <https://doi.org/10.1016/j.lwt.2010.11.018>
- Santoso, U. 2016. *Antioksidan Pangan*. Gadjah Mada Press. Yogyakarta
- Saxena, M., Saxena, J., Pradhan, A. (2012). Flavonoids and phenolic acids as antioxidants in plants and human health. *International Journal Pharmacy Science Research*, 16: 130–134
- Setyamidjaja, D. 1984. *Bertanam Kelapa*. Penerbit Kanisius. Yogyakarta.
- Setyaningsih, W., Saputro, I. E., Palma, M., & Barroso, C. G. (2016). Stability of 40 phenolic compounds during ultrasound-assisted extractions (UAE). *AIP Conference Proceedings*, 1755. <https://doi.org/10.1063/1.4958517>
- Shahidi, F. dan Zhong, Y. (2005b). *Antioxidants: Regulatory Status*. Bailey' Industrial Oil and Fats Products. 6th ed. 6:257-285. John Wiley and Sons Inc, Canada.
- Shahidi, F., dan Zhong, Y. (2005a). *Lipid Oxidation: Measurement Methods*. Bailey's Industrial Oil and Fats Products. 6th ed. 6:257-285. John Wiley and Sons Inc, Canada.
- Sharma, O.P., Bhat, T.K. (2009). DPPH Antioxidant Assay Revisited. *Food Chem.*, 113, 1202–1205
- Sharma, S. K., Bansal, S., Mangal, M., Dixit, A. K., Gupta, R. K., & Mangal, A. K. (2016). Utilization of food processing by-products as dietary, functional, and novel fiber: A review. *Critical Reviews in Food Science and Nutrition*, 56(10), 1647–1661. <https://doi.org/10.1080/10408398.2013.794327>
- Silva, R. R., Oliveira, D., Fontes, H. R., Alviano, C. S., Fernandes, P. D., & Alviano, D. S. (2013). activities of *Cocos nucifera* var . *typica*.
- Singla, R. K., Jaiswal, N., Bhat, V., & Jagani, H. (2011). Antioxidant & Antimicrobial Activities of *Cocos Nucifera* Linn . (*Arecaceae*) Endocarp Extracts. *Indo Global Journal of Pharmaceutical Sciences*, 4(January), 354–361.

- Sissons, M. J., Son, H. N., & Turner, M. A. (2007). Role of gluten and its components in influencing durum wheat dough properties and spaghetti cooking quality. *Journal of the Science of Food and Agriculture*, 87(10), 1874–1885. <https://doi.org/10.1002/jsfa.2915>
- Solangi, A. H., & Iqbal, M. Z. (2011). Chemical Composition Of Meat (Kernel) And Nut Water Of Major Coconut (*Cocos Nucifera* L .) Cultivars At Coastal Area Of Pakistan. *Pakistan Journal of Botany*, 43(1), 357–363.
- Sombie, P.A.E.D., Hilou, A., Mounier, C., Coulibaly, A.Y., Kiendrebeogo, M., Millogo, J.F., Nacoulma, O.G., (2011). Antioxidant and Anti-inflammatory Activities from Galls of *Guiera senegalensis* J.F. Gmel (Combretaceae). *Research Journal of Medicinal Plants*, 5: 448-461.
- Spranger, I., Sun, B., Mateus, A. M., Freitas, V. de, & Ricardo-da-Silva, J. M. (2008). Chemical characterization and antioxidant activities of oligomeric and polymeric procyanidin fractions from grape seeds. *Food Chemistry*, 108(2), 519–532. <https://doi.org/10.1016/j.foodchem.2007.11.004>
- Staško, A., Brezová, V., Biskupič, S., Mišík, V. (2007). The Potential Pitfalls of Using 1,1-Diphenyl-2-Picrylhydrazyl to Characterize Antioxidants in Mixed Water Solvents. *Free Radic. Res.*, 41, 379–390.
- Subiria-Cueto, R., Coria-Oliveros, A. J., Wall-Medrano, A., Rodrigo-García, J., González-Aguilar, G. A., Martinez-Ruiz, N. D. R., & Alvarez-Parrilla, E. (2022). Antioxidant dietary fiber-based bakery products: a new alternative for using plant-by-products. In *Food Science and Technology (Brazil)* (Vol. 42). Sociedade Brasileira de Ciencia e Tecnologia de Alimentos, SBCTA. <https://doi.org/10.1590/fst.57520>
- Suriya, M., Rajput, R., Reddy, C. K., Haripriya, S., & Bashir, M. (2017). Functional and physicochemical characteristics of cookies prepared from *Amorphophallus paeoniifolius* flour. *Journal of Food Science and Technology*, 54(7), 2156–2165. <https://doi.org/10.1007/s13197-017-2656-y>
- Susanti, E. P., Rohman, A., & Setyaningsih, W. (2022). Dual Response Optimization of Ultrasound-Assisted Oil Extraction from Red Fruit (*Pandanus conoideus*): Recovery and Total Phenolic Compounds. *Agronomy*, 12(2). <https://doi.org/10.3390/agronomy12020523>
- Tabaraki, R., Heidarijadi, E., & Benvidi, A. (2012). Optimization of ultrasonic-assisted extraction of pomegranate (*Punica granatum* L.) peel antioxidants by response surface methodology. *Separation And Purification Technology*, 98, 16–23. <https://doi.org/10.1016/j.seppur.2012.06.038>
- Thebo, N. K., Simair, A. A., Mangrio, G. S., Ansari, K. A., Bhutto, A. A., Lu, C., & Sheikh, W. A. (2016). Antifungal Potential and Antioxidant Efficacy in the Shell Extract of *Cocos nucifera* (L.) (Arecaceae) against Pathogenic Dermal Mycosis. *Medicines*, 3(12), 1–12. <https://doi.org/10.3390/medicines3020012>
- Toledo, N. M. V., Mondoni, J., Harada-Padermo, S. S., Vela-Paredes, R. S., Berni, P. R. A., Selani, M. M., & Canniatti-Brazaca, S. G. (2019). Characterization of apple, pineapple, and melon by-products and their application in cookie formulations as an alternative to enhance the

- antioxidant capacity. *Journal of Food Processing and Preservation*, 43(9). <https://doi.org/10.1111/JFPP.14100>
- Tyagi, P., Chauhan, A. K., & Singh, S. N. (2020). Sensory acceptability of value-added cookies incorporated with *Tinospora cordifolia* (TC) stem powder; improvement in nutritional properties and antioxidant potential. *Journal of Food Science and Technology*, 57(8), 2934–2940. <https://doi.org/10.1007/s13197-020-04325-5>
- United Nation (UN). The 17 GOALS|Sustainable Development. Available online: <https://sdgs.un.org/goals> (accessed on 4 September 2023).
- Usman, M., Ahmed, S., Mehmood, A., Bilal, M., Patil, P. J., Akram, K., & Farooq, U. (2020). The effect of apple pomace on nutrition, rheology of dough and cookies quality. *Journal of Food Science and Technology*, 57(9), 3244–3251. <https://doi.org/10.1007/S13197-020-04355-Z>
- Valadez-carmona, L., Cortez-Garcia, R. M., Plazola-Jacinto, C. P., Ortiz-Moreno, A., & Necoechea-Mondrago, H. (2016). Effect of microwave drying and oven drying on the water activity, color, phenolic compounds content and antioxidant activity of coconut husk (*Cocos nucifera* L.). *Journal of Food Science Technology*. <https://doi.org/10.1007/s13197-016-2324-7>
- Viana, H. N. A. C., Sganzerla, W. G., Castro, L. E. N., & Veeck, A. P. de L. (2023). Characterization of baru (*Dipteryx alata* Vog.) and application of its agro-industrial by-product in the formulation of cookies. *Journal of Agriculture and Food Research*, 12. <https://doi.org/10.1016/j.jafr.2023.100577>
- Vianello R, Maksic ZB (2006) Triadic analysis of substituent efectsgas-phase acidity of para-substituted phenols. *Tetrahedron* 62:3402–3411.
- Vo, T. P., Duong, N. H. N., Phan, T. H., Mai, T. P., & Nguyen, D. Q. (2022). Optimized Cellulase-Hydrolyzed Deoiled Coconut Cake Powder as Wheat Flour Substitute in Cookies. *Foods* 2022, Vol. 11, Page 2709, 11(17), 2709. <https://doi.org/10.3390/FOODS11172709>
- Wang, L., Pan, X., Jiang, L., Chu, Y., Gao, S., Jiang, X., Zhang, Y., Chen, Y., Luo, S., & Peng, C. (2022). The Biological Activity Mechanism of Chlorogenic Acid and Its Applications in Food Industry: A Review. In *Frontiers in Nutrition* (Vol. 9). Frontiers Media S.A. <https://doi.org/10.3389/fnut.2022.943911>
- Younis, K., Islam, R., Jahan, K., Kundu, M., & Ray, A. (2016). Investigating the effect of mosambi (*Citrus limetta*) peel powder on physicochemical and sensory properties of cookies. *Quality Assurance and Safety of Crops and Foods*, 8(3), 393–398. <https://doi.org/10.3920/QAS2015.0706>
- Zeb, A. (2020). Concept, Mechanism, and Applications of Phenolic Antioxidants in Foods. *J. Food Biochem.*, 44, e13394.
- Žilić, S., Kocadağlı, T., Vančetović, J., & Gökmen, V. (2016). Effects of baking conditions and dough formulations on phenolic compound stability, antioxidant capacity and color of cookies made from anthocyanin-rich corn flour. *LWT*, 65, 597–603. <https://doi.org/10.1016/j.lwt.2015.08.057>