BIBLIOGRAPHY

Aamir, J., Kumari, A., Khan, M. N., & Medam, S. K. (2013). Evaluation of the combinational antimicrobial effect of Annona Squamosa and Phoenix Dactylifera seeds methanolic extract on standard microbial strains. *International Research Journal of Biological Sciences, 2*(5), 68-73.

Abdel-Ghaffar, F., Semmler, M., Al-Rasheid, K. A., Strassen, B., Fischer, K., Aksu, G., Mehlhorn, H. (2011). The effects of different plant extracts on intestinal cestodes and on trematodes. *Parasitology research, 108*(4), 979-984.

Abdennabi, R., Bardaa, S., Mehdi, M., Rateb, M. E., Raab, A., Alenezi, F. N., . Belbahri, L. (2016). Phoenix dactylifera L. sap enhances wound healing in Wistar rats: Phytochemical and histological assessment. *Int J Biol Macromol, 88*, 443-450. doi: 10.1016/j.ijbiomac.2016.04.015

Abuharfeil, N. M., Sukhon, S. E., Msameh, Y., & Sallal, A.-K. J. (1999). Effect of date fruits, Phoenix dactyliferia L., on the hemolytic activity of streptolysin O. *Pharmaceutical Biology, 37*(5), 335-339.

Ahmed, I. A., Ahmed, A. W. K., & Robinson, R. K. (1995). Chemical composition of date varieties as influenced by the stage of ripening. *Food chemistry, 54*(3), 305-309.

Al Jassas, B., Khayat, M., Alzahrani, H., Asali, A., Alsohaimi, S., Alharbi, H., Mahbub, M. (2018). Gastroenteritis in adults. *International Journal Of Community Medicine And Public Health, 5*(11), 4959-4964.

Al Qroom, R., & Al Momani, W. M. (2014). A comparative study of the In vitro antibacterial activity of endocarp, date palm tissue and date palm tissue with endocarp together against some gram negative and gram positive pathogenic bacteria. *International Journal of Pharmaceutical Sciences and Research, 5*(7), 3081-3084.

Al-Bukhari. (2000). al-Jami' al-Sahih al-Bukhari. *Qiyam al-Mar'ah 'ala al-Rijal fi al-'Urs wa Khidmatihim bi al-Nafs, 16*, 178

Al-Bukhari, M. (1978). *Sahih al-Bukhari*: Dar Ul-Hadith.

Al-Daihan, S., & Bhat, R. S. (2012). Antibacterial activities of extracts of leaf, fruit, seed and bark of Phoenix dactylifera. *African Journal of Biotechnology, 11*(42), 10021-10025.

Al-Farsi, M., Alasalvar, C., Al-Abid, M., Al-Shoaily, K., Al-Amry, M., & Al-Rawahy, F. (2007). Compositional and functional characteristics of dates, syrups, and their by-products. *Food Chemistry, 104*(3), 943-947.

Al-Farsi, M., Alasalvar, C., Morris, A., Baron, M., & Shahidi, F. (2005). Compositional and sensory characteristics of three native sun-dried date (Phoenix dactylifera L.) varieties grown in Oman. *Journal of agricultural and food chemistry, 53*(19), 7586-7591.

Al-Farsi*, M. A., & Lee, C. Y. (2008). Nutritional and functional properties of dates: a review. *Critical reviews in food science and nutrition, 48*(10), 877-887.

Al-Judaibi, A., Al-Zahrani, A., Altammar, K. A., Ismail, S. B., & Darweesh, N. T. (2014). Comparative study of antibacterial activity of plant extracts from several regions of Asia. *American Journal of Pharmacology and Toxicology, 9*(2), 139-147. doi: 10.3844/ajptsp.2014.139.147

Al-Laith, A. A. (2009). Degradation kinetics of the antioxidant activity in date palm (Phoenix dactylifera L.) fruit as affected by maturity stages. *Arab Gulf Journal of Scientific Research, 27*(1/2), 16-25.

Al-Qarawi, A., Abdel-Rahman, H., Mousa, H., Ali, B., & El-Mougy, S. (2008). Nephroprotective action of Phoenix dactylifera. in gentamicin-induced nephrotoxicity. *Pharmaceutical Biology, 46*(4), 227-230.

Al-seeni, M. N. (2012). Minerals content and antimicrobial efficacy of date extracts against some pathogenic bacteria. *Life Science Journal, 9*(2), 504-508. doi: 10.1111/j.1472-765X.2011.03137.x; Zohary, D., Hopf, M., Date palm, Phoenix dactylifera (1993) Domestication of plants in the old World, pp. 157-162. , In, 2nd ed. Clarendon, Oxford

Al-Turki, S., Shahba, M. A., & Stushnoff, C. (2010). Diversity of antioxidant properties and phenolic content of date palm (Phoenix dactylifera L.) fruits as affected by cultivar and location. *J. Food Agric. Environ, 8*(1), 253-260.

Al-zoreky, N. S., & Al-Taher, A. Y. (2015). Antibacterial activity of spathe from Phoenix dactylifera L. against some food-borne pathogens. *Industrial crops and products, 65*, 241-246. doi: 10.1016/j.indcrop.2014.12.014

Al-Shahib, W., & Marshall, R. J. (2002). Dietary fibre content of dates from 13 varieties of date palm Phoenix dactylifera L. *International journal of food science & technology, 37*(6), 719-721.

AlHooti, S., Sidhu, J. S., & Qabazard, H. (1995). Studies on the physio-chemical characteristics of date fruits of five UAE cultivars at different stages of maturity. *Arab Gulf Journal of Scientific Research, 13*(3), 553-569.

Ali, M., Nelson, A. R., Lopez, A. L., & Sack, D. A. (2015). Updated global burden of cholera in endemic countries. *PLoS neglected tropical diseases, 9*(6), e0003832.

Ali, S. M., Khan, A. A., Ahmed, I., Musaddiq, M., Ahmed, K. S., Polasa, H., Ahmed, N. (2005). Antimicrobial activities of Eugenol and Cinnamaldehyde against the human gastric pathogen Helicobacter pylori. *Annals of clinical microbiology and antimicrobials, 4*(1), 20.

Allen, S. J., Okoko, B., Martinez, E. G., Gregorio, G. V., & Dans, L. F. (2003). Probiotics for treating infectious diarrhoea. *Cochrane Database of Systematic Reviews*(4).

Altemimi, A., Lakhssassi, N., Baharlouei, A., Watson, D., & Lightfoot, D. (2017). Phytochemicals: Extraction, isolation, and identification of bioactive compounds from plant extracts. *Plants, 6*(4), 42.

Alwash, M. S., Ibrahim, N., & Ahmad, W. Y. (2013). Identification and mode of action of antibacterial components from Melastoma malabathricum Linn leaves. *American Journal of Infectious Diseases, 9*(2), 46-58.

Amira, E. A., Behija, S. E., Beligh, M., Lamia, L., Manel, I., Mohamed, H., & Lotfi, A. (2012). Effects of the ripening stage on phenolic profile, phytochemical composition and antioxidant activity of date palm fruit. *Journal of agricultural and food chemistry, 60*(44), 10896-10902.

Amorós, A., Pretel, M. T., Almansa, M. S., Botella, M. A., Zapata, P. J., & Serrano, M. (2009). Antioxidant and nutritional properties of date fruit from Elche grove as

affected by maturation and phenotypic variability of date palm. *Food Science and Technology International, 15*(1), 65-72.

Anheyer, D., Frawley, J., Koch, A. K., Lauche, R., Langhorst, J., Dobos, G., & Cramer, H. (2017). Herbal medicines for gastrointestinal disorders in children and adolescents: a systematic review. *Pediatrics, 139*(6), e20170062.

Anigilaje, E. A. (2018). Management of diarrhoeal dehydration in childhood: a review for clinicians in developing countries. *Frontiers in pediatrics, 6*, 28.

Anwar-Shinwari, M. (1987). Iron contents of date fruits. *J Coll Sci King Saudi Univ, 18*(1), 5-13.

Armon, K., Stephenson, T., MacFaul, R., Eccleston, P., & Werneke, U. (2001). An evidence and consensus based guideline for acute diarrhoea management. *Archives of Disease in Childhood, 85*(2), 132-142.

Ashkenazi, S., & Cleary, T. G. (1991). Antibiotic treatment of bacterial gastroenteritis. *The Pediatric infectious disease journal, 10*(2), 140-148.

Ayachi, A., Alloui, N., Bennoune, O., Yakhlef, G., Amiour, W. D., Bouzdi, S., Abdessemed, H. (2009). Antibacterial activity of some fruits; berries and medicinal herb extracts against poultry strains of Salmonella. *Am. Eurasian J. Agric. Environ. Sci, 6*(1), 12-15.

Aziman, N., Abdullah, N., Noor, Z. M., Kamarudin, W. S. S. W., & Zulkifli, K. S. (2014). Phytochemical Profiles and Antimicrobial Activity of Aromatic Malaysian Herb Extracts against Food-Borne Pathogenic and Food Spoilage Microorganisms. *Journal of food science, 79*(4), M583-M592.

Aziz, F. A. A., Ahmad, N. A., Razak, M. A. A., Omar, M., Kasim, N. M., Yusof, M., Ying, C. Y. (2018). Prevalence of and factors associated with diarrhoeal diseases among children under five in Malaysia: a cross-sectional study 2016. *BMC public health, 18*(1), 1-8.

Azwanida, N. N. (2015). A review on the extraction methods use in medicinal plants, principle, strength and limitation. *Med Aromat Plants, 4*(196), 2167-0412.1000196.

Babai, R., Stern, B. E., Hacker, J., & Ron, E. Z. (2000). New fimbrial gene cluster of S-fimbrial adhesin family. *Infection and immunity, 68*(10), 5901-5907.

Balick, M. J., & Cox, P. A. (1996). *Plants, people, and culture: the science of ethnobotany*: Scientific American Library.

Baliga, M. S., Baliga, B. R. V., Kandathil, S. M., Bhat, H. P., & Vayalil, P. K. (2011). A review of the chemistry and pharmacology of the date fruits (Phoenix dactylifera L.). *Food Research International, 44*(7), 1812-1822. doi: 10.1016/j.foodres.2010.07.004

Balunas, M. J., & Kinghorn, A. D. (2005). Drug discovery from medicinal plants. *Life sciences, 78*(5), 431-441.

Bányai, K., Estes, M. K., Martella, V., & Parashar, U. D. (2018). Viral gastroenteritis. *The Lancet, 392*(10142), 175-186.

Barh, D., & Mazumdar, B. C. (2008). Comparative nutritive values of palm saps before and after their partial fermentation and effective use of wild date (Phoenix sylvestris Roxb.) sap in treatment of anemia. *Research Journal of Medicine and Medical Sciences, 3*(2), 173-176.

Barrett, B., & Kieffer, D. (2001). Medicinal plants, science, and health care. *Journal of herbs, spices & medicinal plants, 8*(2-3), 1-36.

Barrett, J., & Fhogartaigh, C. N. (2017). Bacterial gastroenteritis. *Medicine, 45*(11), 683-689.

Bauza, E., Dal Farra, C., Berghi, A., Oberto, G., Peyronel, D., & Domloge, N. (2002). Date palm kernel extract exhibits antiaging properties and significantly reduces skin wrinkles. *International journal of tissue reactions, 24*(4), 131.

Benmeddour, Z., Mehinagic, E., Le Meurlay, D., & Louaileche, H. (2013). Phenolic composition and antioxidant capacities of ten Algerian date (Phoenix dactylifera L.) cultivars: a comparative study. *Journal of Functional Foods, 5*(1), 346-354.

Bennett, J. E., Dolin, R., & Blaser, M. J. (2014). *Mandell, douglas, and bennett's principles and practice of infectious diseases: 2-volume set* (Vol. 2): Elsevier Health Sciences.

Bhat, R. S., & Al-Daihan, S. (2012). Antibacterial properties of different cultivars of Phoenix dactylifera L and their corresponding protein content. *Ann. Biol. Res, 3*(10), 4751-4757.

Bhattacharya, S. (2011). Are we in the polyphenols era. *Pharmacognosy Res, 3*(2), 147-147.

Bhatti, S. G., & Bhatti, A. G. (2019). Characterization of Nutritional and Bioactive Compounds in Ajwa in Comparison to other Five Varieties of Palm Dates. *J Agri Sci Food Res, 10*, 253.

Biglari, F. (2009). Assessment Of antioxidant potential Of Date (Phoenix Dactylifera) fruits from Iran, effect of cold storage and addition to minced chicken meat. *Unpublished Master thesis), University Sains Malaysia, Malaysia.*

Bilia, A. R., Catalano, S., De Simone, F., Morelli, I., & Pizza, C. (1991). An acetylated flavanone glucoside from leaves ofPyracantha coccinea. *Phytochemistry, 30*(11), 3830-3831.

Bimakr, M., Rahman, R. A., Taip, F. S., Ganjloo, A., Salleh, L. M., Selamat, J., Zaidul, I. S. M. (2011). Comparison of different extraction methods for the extraction of major bioactive flavonoid compounds from spearmint (Mentha spicata L.) leaves. *Food and bioproducts processing, 89*(1), 67-72.

Black, J. G. (2008). *Microbiology: principles and explorations*: John Wiley & Sons.

Black, P. H., Kunz, L. J., & Swartz, M. N. (1960). Salmonellosis—a review of some unusual aspects. *New England Journal of Medicine, 262*(18), 921-927.

Blaser., G. I. P.-P. a. M. J. (1996). Campylobacter and Helicobacter. In Baron S (Ed.), Medical Microbiology (4th ed.). Galveston (TX): University of Texas Medical Branch at Galveston.

Borek, C., Ong, A., Mason, H., Donahue, L., & Biaglow, J. E. (1986). Selenium and vitamin E inhibit radiogenic and chemically induced transformation in vitro via different mechanisms. *Proceedings of the National Academy of Sciences, 83*(5), 1490-1494.

Boudries, H., Kefalas, P., & Hornero-Méndez, D. (2007). Carotenoid composition of Algerian date varieties (Phoenix dactylifera) at different edible maturation stages. *Food Chemistry, 101*(4), 1372-1377.

Bouhlali, E. D. T., Bammou, M., Sellam, K., Benlyas, M., Alem, C., & Filali-Zegzouti, Y. (2016). Evaluation of antioxidant, antihemolytic and antibacterial potential of six Moroccan date fruit (Phoenix dactylifera L.) varieties. *Journal of King Saud University - Science, 28*(2), 136-142. doi: 10.1016/j.jksus.2016.01.002

Brenner, F. W., Villar, R. G., Angulo, F. J., Tauxe, R., & Swaminathan, B. (2000). Salmonella nomenclature. *Journal of clinical microbiology, 38*(7), 2465-2467.

Bresee, J. S., Duggan, C., Glass, R. I., & King, C. K. (2003). Managing acute gastroenteritis among children; oral rehydration, maintenance, and nutritional therapy.

Brownlee, H. E., McEuen, A. R., Hedger, J., & Scott, I. M. (1990). Anti-fungal effects of cocoa tannin on the witches' broom pathogen Crinipellis perniciosa. *Physiological and Molecular Plant Pathology, 36*(1), 39-48.

Brück, W. M., Kelleher, S. L., Gibson, G. R., Graverholt, G., & Lönnerdal, B. L. (2006). The effects of α-lactalbumin and glycomacropeptide on the association of CaCo-2 cells by enteropathogenic Escherichia coli, Salmonella typhimurium and Shigella flexneri. *FEMS microbiology letters, 259*(1), 158-162.

Bruzzese, E., Giannattasio, A., & Guarino, A. (2018). Antibiotic treatment of acute gastroenteritis in children. *F1000Research, 7*.

Carayol, N., & Tran Van Nhieu, G. (2013). The inside story of Shigella invasion of intestinal epithelial cells. *Cold Spring Harbor perspectives in medicine, 3*(10), a016717-a016717. doi: 10.1101/cshperspect.a016717

Chaira, N., Smaali, M. I., Martinez-Tomé, M., Mrabet, A., Murcia, M. A., & Ferchichi, A. (2009). Simple phenolic composition, flavonoid contents and antioxidant capacities in water-methanol extracts of Tunisian common date cultivars (Phoenix dactylifera L.). *International journal of food sciences and nutrition, 60*(sup7), 316-329.

Char, C. D., Guerrero, S. N., & Alzamora, S. M. (2010). Mild thermal process combined with vanillin plus citral to help shorten the inactivation time for Listeria innocua in orange juice. *Food and Bioprocess Technology, 3*(5), 752-761.

Chism, G. W., & Haard, N. F. (1996). Characteristics of edible plant tissues. *Food chemistry*, 943-1011.

Chua, H. P., & Aminah, A. (2017). Antimicrobial properties of kacangma (Leonurus sibiricus): the effect of extraction and heat treatment. *Journal of Tropical Agriculture and Food Science, 45*(2), 177-186.

Cowan, M. M. (1999). Plant products as antimicrobial agents. *Clinical microbiology reviews, 12*(4), 564-582.

Cox, S. D., Gustafson, J. E., Mann, C. M., Markham, J. L., Liew, Y. C., Hartland, R. P., Wyllie, S. G. (1998). Tea tree oil causes K+ leakage and inhibits respiration in Escherichia coli. *Letters in applied microbiology, 26*(5), 355-358.

Cozens, D., & Read, R. C. (2012). Anti-adhesion methods as novel therapeutics for bacterial infections. *Expert Review of Anti-Infective Therapy, 10*(12), 1457-1468.

Crump, J. A., Luby, S. P., & Mintz, E. D. (2004). The global burden of typhoid fever. *Bulletin of the World Health Organization, 82*, 346-353.

Curns, A. T., Steiner, C. A., Barrett, M., Hunter, K., Wilson, E., & Parashar, U. D. (2010). Reduction in acute gastroenteritis hospitalizations among US children after introduction of rotavirus vaccine: analysis of hospital discharge data from 18 US states. *The Journal of infectious diseases, 201*(11), 1617-1624.

Cushnie, T. P. T., & Lamb, A. J. (2005). Antimicrobial activity of flavonoids. *International journal of antimicrobial agents, 26*(5), 343-356.

D'Archivio, M., Filesi, C., Varì, R., Scazzocchio, B., & Masella, R. (2010). Bioavailability of the polyphenols: status and controversies. *International Journal Of Molecular Sciences, 11*(4), 1321-1342.

Daglia, M. (2012). Polyphenols as antimicrobial agents. *Current opinion in biotechnology, 23*(2), 174-181.

Daoud, A., Malika, D., Bakari, S., Hfaiedh, N., Mnafgui, K., Kadri, A., & Gharsallah, N. (2019). Assessment of polyphenol composition, antioxidant and

antimicrobial properties of various extracts of Date Palm Pollen (DPP) from two Tunisian cultivars. *Arabian Journal of Chemistry, 12*(8), 3075-3086.

Das, R., Paul, P., Mukherjee, K., Mitra, S., Singh, U. P., & Banerjee, E. R. (2015). Anti-oxiflammatory profile of date extracts (Phoenix sylvestris). *Biomedical Research and Therapy, 2*(06), 297-317.

Davies, J., & Davies, D. (2010). Origins and evolution of antibiotic resistance. *Microbiol. Mol. Biol. Rev., 74*(3), 417-433.

Dennehy, P. H. (2000). Transmission of rotavirus and other enteric pathogens in the home. *The Pediatric infectious disease journal, 19*(10), S103-S105.

Dennehy, P. H. (2019). Infectious Gastroenteritis *Introduction to Clinical Infectious Diseases* (pp. 157-168): Springer.

Deuraseh, N. (2006). Health and medicine in the Islamic tradition based on the book of medicine (Kitab Al-Tibb) of Sahih Al-Bukhari. *Jishim, 5*, 2-14.

Di Mascio, P., Murphy, M. E., & Sies, H. (1991). Antioxidant defense systems: the role of carotenoids, tocopherols, and thiols. *The American journal of clinical nutrition, 53*(1), 194S-200S.

Dorta, E., Lobo, M. G., & Gonzalez, M. (2012). Reutilization of mango byproducts: study of the effect of extraction solvent and temperature on their antioxidant properties. *Journal of food science, 77*(1), C80-C88.

Doughari, J. H. (2012). Phytochemicals: extraction methods, basic structures and mode of action as potential chemotherapeutic agents *Phytochemicals-A global perspective of their role in nutrition and health*: InTechOpen.

Doughari, J. H., Elmahmood, A. M., & Manzara, S. (2007). Studies on the antibacterial activity of root extracts of Carica papaya L. *African Journal of Microbiology Research, 1*(3), 037-041.

Doyle J. Evans, J. a. D. G. E. (1996). Escherichia Coli in Diarrheal Disease. In S. Baron. (Ed.), Medical Microbiology (4TH ed.). Galveston: University of Texas Medical Branch at Galveston. Retrieved from https://www.ncbi.nlm.nih.gov/books/NBK7627/

Duke, J. A. (2017). *Handbook of Phytochemical Constituent Grass, Herbs and Other Economic Plants: Herbal Reference Library*: Routledge.

Duke, J. A., & Beckstrom-Sternberg, S. (2007). Dr. Duke's Ethnobotanical Databses.

Durairaj, S., Srinivasan, S., & Lakshmanaperumalsamy, P. (2009). In vitro antibacterial activity and stability of garlic extract at different pH and temperature. *Electronic Journal of Biology, 5*(1), 5-10.

Edae, M. C. K., & Wabalo, E. K. (2019). Bacterial Toxins and Their Modes of Action: A Review Article. *cloning, 55*.

Eid, N., Enani, S., Walton, G., Corona, G., Costabile, A., Gibson, G., Spencer, J. P. E. (2014). The impact of date palm fruits and their component polyphenols, on gut microbial ecology, bacterial metabolites and colon cancer cell proliferation. *Journal of nutritional science, 3*.

Eid, N. M. S., Al-Awadi, B., Vauzour, D., Oruna-Concha, M. J., & Spencer, J. P. E. (2013). Effect of cultivar type and ripening on the polyphenol content of date palm fruit. *Journal of agricultural and food chemistry, 61*(10), 2453-2460.

Ejele, A. E., Akalezi, C. I., Iwu, I. C., Ukiwe, L. N., Enenebaku, C. K., & Ngwu, S. U. (2014). Bioassay-guided isolation, purification and charaterization of antimicrobial compound from acidic metabolite of piper umbellatum seed extract. *International Journal of Chemistry, 6*(1), 61.

El Arem, A., Ghrairi, F., Lahouar, L., Thouri, A., Saafi, E. B., Ayed, A., Zakhama, A. (2014). Hepatoprotective activity of date fruit extracts against dichloroacetic acid-induced liver damage in rats. *Journal of Functional Foods, 9*, 119-130.

El Sohaimy, S. A., Abdelwahab, A. E., Brennan, C. S., & Aboul-Enein, A. M. (2015). Phenolic content, antioxidant and antimicrobial activities of Egyptian date palm (Phoenix dactylifera L.) fruits.

El-Seedi, H. R., Burman, R., Mansour, A., Turki, Z., Boulos, L., Gullbo, J., & Göransson, U. (2013). The traditional medical uses and cytotoxic activities of sixty-one Egyptian plants: discovery of an active cardiac glycoside from Urginea maritima. *Journal of Ethnopharmacology, 145*(3), 746-757.

El-Sharnouby, G. A., & Al-Eid, S. M. (2009). Utilization of enzymes in the production of liquid sugar from dates. *African Journal of Biochemistry Research, 3*(3), 041-047.

Elhoumaizi, M., Devanand, P., Fang, J., & Chao, C.-C. (2006). Confirmation of `Medjool' Date as a Landrace Variety through Genetic Analysis of `Medjool' Accessions in Morocco. *Journal of the American Society for Horticultural Science. American Society for Horticultural Science, 131*. doi: 10.21273/JASHS.131.3.403

Elliott, E. J. (2007). Acute gastroenteritis in children. *BMJ: British Medical Journal, 334*(7583), 35.

Eslick, G. D. (2019). *Gastrointestinal Diseases and Their Associated Infections*: Elsevier Health Sciences.

European Centre for Disease, P. (2012). *Annual Epidemiological Report*: ECDC, European Centre for Disease Prevention and Control.

Fabricant, D. S., & Farnsworth, N. R. (2001). The value of plants used in traditional medicine for drug discovery. *Environmental health perspectives, 109*(Suppl 1), 69.

Falcone Ferreyra, M. L., Rius, S., & Casati, P. (2012). Flavonoids: biosynthesis, biological functions, and biotechnological applications. *Frontiers in plant science, 3*, 222.

Farag, M. A., Mohsen, M., Heinke, R., & Wessjohann, L. A. (2014). Metabolomic fingerprints of 21 date palm fruit varieties from Egypt using UPLC/PDA/ESI–qTOF-MS and GC–MS analyzed by chemometrics. *Food research international, 64*, 218-226.

Farhana, M. I., Nadia, M. Z., Natasha, A., & Shahida, W. S. (2017). Effect of Date Fruits (Phoenix dactylifera) on Human Pathogenic Bacteria: A Systematic Review. *Advanced Science Letters, 23*(5), 4676-4680.

Farhangi, H., Ajilian, M., Saeidi, M., & Khodaei, G. H. (2014). Medicinal fruits in holy Quran. *International Journal of Pediatrics, 2*(3.2), 89-102.

Farooqi, I. (1998). Ahadith Mein Mazkoor Nabatat, Adwiya Aur Ghizain. *Ilm-o-Irfan Pulishers, 38*.

Farthing, M., Salam, M. A., Lindberg, G., Dite, P., Khalif, I., Salazar-Lindo, E., Khan, A. G. (2013). Acute diarrhea in adults and children: a global perspective. *Journal of clinical gastroenterology, 47*(1), 12-20.

Fasano, A. (2000). Intestinal infections: bacteria. *Pediatric Gastrointestinal Disease, ed. WA Walker, PR Durie, JR Hamilton. Ontario, BC Decker*.

Feeny, P. (1970). Seasonal changes in oak leaf tannins and nutrients as a cause of spring feeding by winter moth caterpillars. *Ecology, 51*(4), 565-581.

Ferrazzano, G. F., Amato, I., Ingenito, A., De Natale, A., & Pollio, A. (2009). Anti-cariogenic effects of polyphenols from plant stimulant beverages (cocoa, coffee, tea). *Fitoterapia, 80*(5), 255-262.

Ferrero-Miliani, L., Nielsen, O. H., Andersen, P. S., & Girardin, S. E. (2007). Chronic inflammation: Importance of NOD2 and NALP3 in interleukin-1β generation. *Clinical and Experimental Immunology, 147*(2), 227-235. doi: 10.1111/j.1365-2249.2006.03261.x

Fhogartaigh, C. N., & Edgeworth, J. D. (2009). Bacterial gastroenteritis. *Medicine, 37*(11), 586-593.

Fine, A. M. (2000). Oligomeric proanthocyanidin complexes: history, structure, and phytopharmaceutical applications. *Alternative medicine review: a journal of clinical therapeutic, 5*(2), 144-151.

Finkelstein, R. A. (1996). Cholera, Vibrio cholerae O1 and O139, and other pathogenic vibrios.

Finlay, B. B., Heffron, F., & Falkow, S. (1989). Epithelial cell surfaces induce Salmonella proteins required for bacterial adherence and invasion. *Science, 243*(4893), 940-943.

Freeman, J., & Wilcox, M. H. (1999). Antibiotics and Clostridium difficile. *Microbes and infection, 1*(5), 377-384.

Galanis, E. (2007). Campylobacter and bacterial gastroenteritis. *Cmaj, 177*(6), 570-571.

Gastroenteritis, S. O. A. (1996). Practice parameter: the management of acute gastroenteritis in young children. *Pediatrics, 97*(3), 424-435.

Giannella., R. A. (1996). Salmonella. In S. Baron (Ed.), *Medical microbiology* (4th edition ed.). Galveston (TX): University of Texas Medical Branch at Galveston.

Gibney, K. B., O'Toole, J., Sinclair, M., & Leder, K. (2014). Disease burden of selected gastrointestinal pathogens in Australia, 2010. *International Journal of Infectious Diseases, 28*, 176-185.

Ginovyan, M. M. (2017). Effect of heat treatment on antimicrobial activity of crude extracts of some Armenian herbs. *Chemistry and Biology, 51*(2), 113-117.

Goossens, H., & Sprenger, M. J. W. (1998). Community acquired infections and bacterial resistance. *BMJ: British Medical Journal, 317*(7159), 654.

Górniak, I., Bartoszewski, R., & Króliczewski, J. (2019). Comprehensive review of antimicrobial activities of plant flavonoids. *Phytochemistry Reviews, 18*(1), 241-272.

Guido, F., Behija, S. E., Manel, I., Nesrine, Z., Ali, F., Mohamed, H.,Lotfi, A. (2011). Chemical and aroma volatile compositions of date palm (Phoenix dactylifera L.) fruits at three maturation stages. *Food chemistry, 127*(4), 1744-1754.

Guimarães, A. C., Meireles, L. M., Lemos, M. F., Guimarães, M. C. C., Endringer, D. C., Fronza, M., & Scherer, R. (2019). Antibacterial activity of terpenes and terpenoids present in essential oils. *Molecules, 24*(13), 2471.

Gurpreet, K., Tee, G. H., Amal, N. M., Paramesarvathy, R., & Karuthan, C. (2011). Incidence and determinants of acute diarrhoea in Malaysia: a population-based study. *Journal of health, population, and nutrition, 29*(2), 103-112. doi: 10.3329/jhpn.v29i2.7814

Hafiz, M. J. A., Shalabi, A. F., & Akhal, I. D. A. (1980). *Chemical composition of 15 varieties of dates grown in Saudi Arabia.* Paper presented at the Proceedings of the Fourth Conference on the Biological Aspects of Saudi Arabia.

Hamad, I., AbdElgawad, H., Al Jaouni, S., Zinta, G., Asard, H., Hassan, S.,Selim, S. (2015). Metabolic Analysis of Various Date Palm Fruit (Phoenix dactylifera L.)

Cultivars from Saudi Arabia to Assess Their Nutritional Quality. *Molecules (Basel, Switzerland), 20*(8), 13620-13641. doi: 10.3390/molecules200813620

Harlem, G. (1999). WHO report on infectious diseases: removing the obstacle to healthy development. *Brunotland (Switzerland): World Health Organization*.

Hasan, M., & Mohieldein, A. (2016). In vivo evaluation of anti diabetic, hypolipidemic, antioxidative activities of Saudi date seed extract on streptozotocin induced diabetic rats. *Journal of clinical and diagnostic research: JCDR, 10*(3), FF06.

Heindrich, M., Barnes, J., Gibbons, S., & Williamson, E. M. (2004). Fundamentals of pharmacognosy and phytotherapy. *Australian journal of medical herbalism, 16*, 72-72.

Helander, I. M., Alakomi, H.-L., Latva-Kala, K., Mattila-Sandholm, T., Pol, I., Smid, E. J., . . . von Wright, A. (1998). Characterization of the action of selected essential oil components on Gram-negative bacteria. *Journal of agricultural and food chemistry, 46*(9), 3590-3595.

Helms, R. A., & Quan, D. J. (2006). *Textbook of therapeutics: drug and disease management*: Lippincott Williams & Wilkins.

Hoekman, D. R., Rutten, J. M. T. M., Vlieger, A. M., Benninga, M. A., & Dijkgraaf, M. G. W. (2015). Annual costs of care for pediatric irritable bowel syndrome, functional abdominal pain, and functional abdominal pain syndrome. *The Journal of pediatrics, 167*(5), 1103-1108. e1102.

Hong, Y. J., Tomas-Barberan, F. A., Kader, A. A., & Mitchell, A. E. (2006). The flavonoid glycosides and procyanidin composition of Deglet Noor dates (Phoenix dactylifera). *Journal of agricultural and food chemistry, 54*(6), 2405-2411.

Humphries, R. M., & Linscott, A. J. (2015). Laboratory diagnosis of bacterial gastroenteritis. *Clinical microbiology reviews, 28*(1), 3-31.

Hussain, M. I., Farooq, M., & Syed, Q. A. (2020). Nutritional and biological characteristics of the date palm fruit (Phoenix dactylifera L.)–A review. *Food Bioscience, 34*, 100509.

Ismail, B., Haffar, I., Baalbaki, R., & Henry, J. (2008). Physico-chemical characteristics and sensory quality of two date varieties under commercial and industrial storage conditions. *LWT-Food Science and Technology, 41*(5), 896-904.

J Eckardt, A., & C Baumgart, D. (2011). Viral gastroenteritis in adults. *Recent Patents on anti-infective drug discovery, 6*(1), 54-63.

Jadhav, D., Rekha, B. N., Gogate, P. R., & Rathod, V. K. (2009). Extraction of vanillin from vanilla pods: A comparison study of conventional soxhlet and ultrasound assisted extraction. *Journal of food engineering, 93*(4), 421-426.

Jassim, S. A., & Naji, M. A. (2010). In vitro evaluation of the antiviral activity of an extract of date palm (Phoenix dactylifera L.) pits on a Pseudomonas phage. *Evidence-Based Complementary and Alternative Medicine, 7*.

Jikal, M., Riduan, T., Aarifin, R., Jeffree, M. S., & Ahmed, K. (2019). Cholera outbreak by Sea Gypsies in Sabah, Malaysia: A challenge in North Borneo. *International Journal of Infectious Diseases, 83*, 83-85. doi: https://doi.org/10.1016/j.ijid.2019.04.008

Johnston, B. C., Ma, S. S. Y., Goldenberg, J. Z., Thorlund, K., Vandvik, P. O., Loeb, M., & Guyatt, G. H. (2012). Probiotics for the prevention of Clostridium difficile–associated diarrhea: a systematic review and meta-analysis. *Annals of internal medicine, 157*(12), 878-888.

Joshi, V. K., & John, S. (2002). Antimicrobial activity of apple wine against some pathogenic and microbes of public health and significance. *Alimentaria: Revista de tecnología e higiene de los alimentos*(338), 67-72.

Julia, V., Macia, L., & Dombrowicz, D. (2015). The impact of diet on asthma and allergic diseases. *Nature Reviews Immunology, 15*(5), 308-322. doi: 10.1038/nri3830

Jung, J. E., Kim, H. S., Lee, C. S., Park, D.-H., Kim, Y.-N., Lee, M.-J., Chung, M.-H. (2007). Caffeic acid and its synthetic derivative CADPE suppress tumor angiogenesis by blocking STAT3-mediated VEGF expression in human renal carcinoma cells. *Carcinogenesis, 28*(8), 1780-1787. doi: 10.1093/carcin/bgm130

Kaneria, M., Baravalia, Y., Vaghasiya, Y., & Chanda, S. (2009). Determination of antibacterial and antioxidant potential of some medicinal plants from Saurashtra region, India. *Indian journal of pharmaceutical sciences, 71*(4), 406.

Kang, Y. J., Yi, Y. l., Zhang, C., Wu, S. Q., Shi, C. B., & Wang, G. X. (2013). Bioassay-guided isolation and identification of active compounds from M acleaya microcarpa (Maxim) Fedde against fish pathogenic bacteria. *Aquaculture Research, 44*(8), 1221-1228.

Kchaou, W., Abbès, F., Blecker, C., Attia, H., & Besbes, S. (2013). Effects of extraction solvents on phenolic contents and antioxidant activities of Tunisian date varieties (Phoenix dactylifera L.). *Industrial crops and products, 45*, 262-269.

Keusch., T. L. H. a. G. T. (1996). Shigella. In B. S (Ed.), *Medical Microbiology.* (4th ed.). Galveston: University of Texas Medical Branch at Galveston.

Khairuddin, M. F., Haron, H., Yahya, H. M., & Malek, N. (2017). Nutrient compositions and total polyphenol contents of selected dried fruits available in Selangor, Malaysia. *Journal of Agricultural Science, 9*(13), 41-49.

Khalid, S., Khalid, N., Khan, R. S., Ahmed, H., & Ahmad, A. (2017). A review on chemistry and pharmacology of Ajwa date fruit and pit. *Trends in food science & technology, 63*, 60-69.

Khan, M. N., Sarwar, A., Wahab, M. F., & Haleem, R. (2008). Physico-chemical characterization of date varieties using multivariate analysis. *Journal of the Science of Food and Agriculture, 88*(6), 1051-1059.

Khare, C. (2007). Indian Medicinal Plants-An Illustrated Dictionary. 1st Indian Reprint Springer (India) Pvt. *Ltd., New Delhi, India, 28*.

Kheirkhah, D., Sharif, M. R., Honarpisheh, P., & Sharif, A. (2016). The effects of vitamin A on acute watery diarrhea in children 1–5 years old. *International Journal of Medical Research & Health Sciences, 5*(12), 228-232.

Khorasani Esmaeili, A., Mat Taha, R., Mohajer, S., & Banisalam, B. (2015). Antioxidant activity and total phenolic and flavonoid content of various solvent extracts from in vivo and in vitro grown Trifolium pratense L.(red clover). *BioMed research international, 2015*.

Khurram, M., Lawton, L., Edwards, C., Iriti, M., Hameed, A., Khan, M., Rahman, S. (2015). Rapid Bioassay-Guided Isolation of Antibacterial Clerodane Type Diterpenoid from Dodonaea viscosa (L.) Jaeq. *International Journal Of Molecular Sciences, 16*(9), 20290-20307.

Kim, G. H., Kim, J. E., Rhie, S. J., & Yoon, S. (2015). The role of oxidative stress in neurodegenerative diseases. *Experimental neurobiology, 24*(4), 325-340.

Kim, J., Marshall, M. R., & Wei, C.-i. (1995). Antibacterial activity of some essential oil components against five foodborne pathogens. *Journal of agricultural and food chemistry, 43*(11), 2839-2845.

Kim, S.-Y., Jeong, S.-M., Kim, S.-J., Jeon, K.-I., Park, E., Park, H.-R., & Lee, S.-C. (2006). Effect of heat treatment on the antioxidative and antigenotoxic activity of extracts from persimmon (Diospyros kaki L.) peel. *Bioscience, biotechnology, and biochemistry, 70*(4), 999-1002.

Klimpel, S., Abdel-Ghaffar, F., Al-Rasheid, K. A., Aksu, G., Fischer, K., Strassen, B., & Mehlhorn, H. (2011). The effects of different plant extracts on nematodes. *Parasitology research, 108*(4), 1047-1054.

Koffi, E., Sea, T., Dodehe, Y., & Soro, S. (2010). Effect of solvent type on extraction of polyphenols from twenty three Ivorian plants. *Journal of Animal and Plant Sciences (JAPS), 5*(3), 550-558.

Kotloff, K. L. (2017). The burden and etiology of diarrheal illness in developing countries. *Pediatric Clinics, 64*(4), 799-814.

Kovacikova, G., & Skorupski, K. (2002). The alternative sigma factor σE plays an important role in intestinal survival and virulence in Vibrio cholerae. *Infection and immunity, 70*(10), 5355-5362.

Krentz, A. J., & Bailey, C. J. (2005). Oral Diabetic Agents Current Role in Type 2 Diabetes Melitus. *Riview Article, 65*(3), 394.

Krones, E., & Högenauer, C. (2012). Diarrhea in the immunocompromised patient. *Gastroenterology Clinics, 41*(3), 677-701.

Kurekci, C., Padmanabha, J., Bishop-Hurley, S. L., Hassan, E., Al Jassim, R. A. M., & McSweeney, C. S. (2013). Antimicrobial activity of essential oils and five terpenoid compounds against Campylobacter jejuni in pure and mixed culture experiments. *International journal of food microbiology, 166*(3), 450-457.

Lackner, J., Weiss, M., Müller-Graf, C., & Greiner, M. (2019). The disease burden associated with Campylobacter spp. in Germany, 2014. *PloS one, 14*(5).

Lacombe, A., Wu, V. C. H., Tyler, S., & Edwards, K. (2010). Antimicrobial action of the American cranberry constituents; phenolics, anthocyanins, and organic acids, against Escherichia coli O157: H7. *International journal of food microbiology, 139*(1-2), 102-107.

Lamps, L. W., Lai, K. K. T., & Milner Jr, D. A. (2014). Fungal Infections of the Gastrointestinal Tract in the Immunocompromised Host-An Update. *Advances in anatomic pathology, 21*(4), 217.

Lane, M. M., Dalton Iii, W. T., Sherman, S. A., Bree, A. F., & Czyzewski, D. I. (2009). Psychosocial functioning and quality of life in children and families affected by AEC syndrome. *American Journal of Medical Genetics Part A, 149*(9), 1926-1934.

Lane, M. M., Weidler, E. M., Czyzewski, D. I., & Shulman, R. J. (2009). Pain symptoms and stooling patterns do not drive diagnostic costs for children with functional abdominal pain and irritable bowel syndrome in primary or tertiary care. *Pediatrics, 123*(3), 758-764.

Laouini, S. E., Segni, L., & Ouahrani, M. R. (2013). A comparative study of the antioxidant activity and phytochemical composition of leaves extract of some varieties of date palm. *International Journal of Advances in Pharmaceutical Research, 4*(12), 2564-2571.

Lee, J.-H., Shim, J. S., Chung, M.-S., Lim, S.-T., & Kim, K. H. (2009). Inhibition of pathogen adhesion to host cells by polysaccharides from Panax ginseng. *Bioscience, biotechnology, and biochemistry*, 0812271238-0812271238.

Lei, Z., Huhman, D. V., & Sumner, L. W. (2011). Mass spectrometry strategies in metabolomics. *Journal of Biological Chemistry, 286*(29), 25435-25442.

Li, B. H., & Tian, W. X. (2004). Inhibitory effects of flavonoids on animal fatty acid synthase. *Journal of biochemistry, 135*(1), 85-91.

Lim, P. Y., Pang, S. F., Yusoff, M. M., & Gimbun, J. (2018). Effect of extraction temperature and time on the extraction of phenolic compounds and antioxidant capacity of Phaleria macrocarpa fruit. *Asia Proceedings of Social Sciences, 2*(1), 14-18.

Lim, V. (2007). Infectious diarrhoea. *Medical Journal of Malaysia, 62*(3), 187.

Lin, C.-M., Chiu, J.-H., Wu, I. H., Wang, B.-W., Pan, C.-M., & Chen, Y.-H. (2010). Ferulic acid augments angiogenesis via VEGF, PDGF and HIF-1α. *The Journal of Nutritional Biochemistry, 21*(7), 627-633.

Liolios, C. C., Sotiroudis, G. T., & Chinou, I. (2009). Fatty acids, sterols, phenols and antioxidant activity of Phoenix theophrasti fruits growing in Crete, Greece. *Plant foods for human nutrition, 64*(1), 52-61.

Liu, J., Platts-Mills, J. A., Juma, J., Kabir, F., Nkeze, J., Okoi, C., Alonso, P. L. (2016). Use of quantitative molecular diagnostic methods to identify causes of diarrhoea in children: a reanalysis of the GEMS case-control study. *The Lancet, 388*(10051), 1291-1301.

Liu, L., Jin, C., & Zhang, Y. (2014). Lipophilic phenolic compounds (Lipo-PCs): emerging antioxidants applied in lipid systems. *Rsc Advances, 4*(6), 2879-2891.

Loganathan, T., Ng, C.-W., Lee, W.-S., & Jit, M. (2016). The hidden health and economic burden of Rotavirus gastroenteritis in Malaysia. *The Pediatric infectious disease journal, 35*(6), 601-606.

Louis, P., & O'Byrne, C. P. (2010). Life in the gut: microbial responses to stress in the gastrointestinal tract. *Science progress, 93*(1), 7-36.

Majowicz, S. E., Musto, J., Scallan, E., Angulo, F. J., Kirk, M., O'Brien, S. J., International Collaboration on Enteric Disease "Burden of Illness", S. (2010). The global burden of nontyphoidal Salmonella gastroenteritis. *Clinical Infectious Diseases, 50*(6), 882-889.

Mallhi, T. H., Qadir, M. I., Ali, M., Ahmad, B., Khan, Y. H., & Atta Ur, R. (2014). Ajwa date (Phoenix dactylifera): An emerging plant in pharmacological research. *Pakistan Journal of Pharmaceutical Sciences, 27*(3), 607-616.

Manickavasagan, A., Essa, M. M., & Sukumar, E. (2012). *Dates: production, processing, food, and medicinal values*: CRC Press.

Marcos, L. A., & DuPont, H. L. (2007). Advances in defining etiology and new therapeutic approaches in acute diarrhea. *Journal of Infection, 55*(5), 385-393.

Martín-Sánchez, A. M., Cherif, S., Ben-Abda, J., Barber-Vallés, X., Pérez-Álvarez, J. Á., & Sayas-Barberá, E. (2014). Phytochemicals in date co-products and their antioxidant activity. *Food chemistry, 158*, 513-520.

Merrell, D. S., Tischler, A. D., Lee, S. H., & Camilli, A. (2000). Vibrio cholerae requires rpoS for efficient intestinal colonization. *Infection and immunity, 68*(12), 6691-6696.

Muhamad, N., Yusoff, M. M., & Gimbun, J. (2015). Thermal degradation kinetics of nicotinic acid, pantothenic acid and catechin derived from Averrhoa bilimbi fruits. *Rsc Advances, 5*(90), 74132-74137.

Murray, C. K. (2009). clinical Infectious Disease Edited by David Schlossberg New York: Cambridge University Press, 2008. 1592 pp. Illustrated. $95.00 (hardcover). *Clinical Infectious Diseases, 48*(7), 999.

Murray, P. R., Rosenthal, K. S., & Pfaller, M. A. (2015). *Medical microbiology*: Elsevier Health Sciences.

Muslim, I. (1990). Sahih Muslim (Volume III), translated into English by Siddiqi, AH, Lahore, Pakistan: Sh. *Muhammad Ashraf*.

Nagourney, R. A. (1998). Garlic: Medicinal food or nutritious medicine? *Journal of medicinal food, 1*(1), 13-28.

National Collaborating Centre for, W. s., & Children's, H. (2009). Diarrhoea and vomiting caused by gastroenteritis: diagnosis, assessment and management in children younger than 5 years.

Ncube, N. S., Afolayan, A. J., & Okoh, A. I. (2008). Assessment techniques of antimicrobial properties of natural compounds of plant origin: current methods and future trends. *African journal of biotechnology, 7*(12).

Ng, K. R., Lyu, X., Mark, R., & Chen, W. N. (2019). Antimicrobial and antioxidant activities of phenolic metabolites from flavonoid-producing yeast: Potential as natural food preservatives. *Food chemistry, 270*, 123-129.

Nimri, L. F., Meqdam, M. M., & Alkofahi, A. (1999). Antibacterial activity of Jordanian medicinal plants. *Pharmaceutical Biology, 37*(3), 196-201.

Nohynek, L. J., Alakomi, H.-L., Kähkönen, M. P., Heinonen, M., Helander, I. M., Oksman-Caldentey, K.-M., & Puupponen-Pimiä, R. H. (2006). Berry phenolics: antimicrobial properties and mechanisms of action against severe human pathogens. *Nutrition and cancer, 54*(1), 18-32.

Nousiainen, P., Merras-Salmio, L., Aalto, K., & Kolho, K.-L. (2014). Complementary and alternative medicine use in adolescents with inflammatory bowel disease and juvenile idiopathic arthritis. *BMC complementary and alternative medicine, 14*(1), 124.

Noumi, E., & Yomi, A. (2001). Medicinal plants used for intestinal diseases in Mbalmayo Region, Central Province, Cameroon. *Fitoterapia, 72*(3), 246-254.

Ofek, I., Hasty, D. L., & Doyle, R. J. (2003). *Bacterial adhesion to animal cells and tissues*: ASM press.

Ofek, I., Hasty, D. L., & Sharon, N. (2003). Anti-adhesion therapy of bacterial diseases: prospects and problems. *FEMS Immunology & Medical Microbiology, 38*(3), 181-191.

Ogungbenle, H. N. (2011). Chemical and fatty acid compositions of date palm fruit (Phoenix dactylifera L) flour. *Bangladesh Journal of scientific and industrial research, 46*(2), 255-258.

Okpekon, T., Yolou, S., Gleye, C., Roblot, F., Loiseau, P., Bories, C., . . . Hocquemiller, R. (2004). Antiparasitic activities of medicinal plants used in Ivory Coast. *Journal of ethnopharmacology, 90*(1), 91-97.

Ozeri, V., Rosenshine, I., Ben-Ze'Ev, A., Bokoch, G. M., Jou, T. S., & Hanski, E. (2001). De novo formation of focal complex-like structures in host cells by invading Streptococci. *Molecular microbiology, 41*(3), 561-573.

Pan, X., Yang, Y., & Zhang, J.-R. (2014). Molecular basis of host specificity in human pathogenic bacteria. *Emerging microbes & infections, 3*(1), 1-10.

Pang, S. F., Lau, M. Z., Yusoff, M. M., & Gimbun, J. (2017). *Microwave-Irradiation Induced Fast Simultaneous Extraction of Methoxylated and Hydroxylated*

Phenolic Compounds from Orthosiphon stamineus Leaves. Paper presented at the Materials Science Forum.

Parkar, S. G., Stevenson, D. E., & Skinner, M. A. (2008). The potential influence of fruit polyphenols on colonic microflora and human gut health. *International journal of food microbiology, 124*(3), 295-298.

Paul, A., Laurila, T., Vuorinen, V., & Divinski, S. V. (2014). Fick's laws of diffusion *Thermodynamics, diffusion and the kirkendall effect in solids* (pp. 115-139): Springer.

Perveen, K., Bokhari, N. A., & Soliman, D. A. W. (2012). Antibacterial activity of Phoenix dactylifera L. leaf and pit extracts against selected Gram negative and Gram positive pathogenic bacteria. *Journal of Medicinal Plants Research, 6*(2), 296-300.

Phavichitr, N., & Catto-Smith, A. G. (2003). Acute Gastroenteritis in Children. *Pediatric Drugs, 5*(5), 279-290.

Pickering, L. K. (2000). *2000 Red book: report of the Committee on Infectious Diseases*: American Academy of Pediatrics.

Pike, A., Etchegary, H., Godwin, M., McCrate, F., Crellin, J., Mathews, M., Kinden, J. (2013). Use of natural health products in children: qualitative analysis of parents' experiences. *Canadian Family Physician, 59*(8), e372-e378.

Pizarro-Cerdá, J., & Cossart, P. (2006). Bacterial adhesion and entry into host cells. *Cell, 124*(4), 715-727.

Popoff, M. Y., Bockemühl, J., & Brenner, F. W. (2000). Supplement 1999 (no. 43) to the Kauffmann-White scheme. *Research in microbiology, 151*(10), 893-896.

Prasad, R. N., Viswanathan, S., Devi, J. R., Nayak, V., Swetha, V. C., Archana, B. R., . . . Rajkumar, J. (2008). Preliminary phytochemical screening and antimicrobial activity of Samanea saman. *Journal of Medicindl Plants Research, 2*(10), 268-270.

Pujari, R. R., Vyawahare, N. S., & Kagathara, V. G. (2011). Evaluation of antioxidant and neuroprotective effect of date palm (phoenix dactylifera L.) against bilateral common carotid artery occlusion in rats. *Indian Journal of Experimental Biology, 49*(8), 627-633.

Puri, A., Sahai, R., Singh, K. L., Saxena, R., Tandon, J., & Saxena, K. (2000). Immunostimulant activity of dry fruits and plant materials used in Indian traditional medical system for mothers after child birth and invalids. *Journal of ethnopharmacology, 71*(1-2), 89-92.

Puupponen-Pimiä, R., Nohynek, L., Meier, C., Kähkönen, M., Heinonen, M., Hopia, A., & Oksman-Caldentey, K. M. (2001). Antimicrobial properties of phenolic compounds from berries. *Journal of applied microbiology, 90*(4), 494-507.

Rahmani, A. H., Aly, S. M., Ali, H., Babiker, A. Y., Suikar, S., & Khan, A. A. (2014). Therapeutic effects of date fruits (Phoenix dactylifera) in the prevention of diseases via modulation of anti-inflammatory, anti-oxidant and anti-tumour activity. *International Journal of Clinical and Experimental Medicine, 7*(3), 483-491.

Ramig, R. F. (2004). Pathogenesis of intestinal and systemic rotavirus infection. *Journal of virology, 78*(19), 10213-10220.

Raz, R., Chazan, B., & Dan, M. (2004). Cranberry juice and urinary tract infection. *Clinical Infectious Diseases, 38*(10), 1413-1419.

Regina C. LaRocgue, E. T. R., Stephen B. Calderwood. (2013). acute infectious diarrheal disease and bacterial food poisoning. In A. S. F. Dennis L. Kasper

(Ed.), *Harrison's infectious disease* (Vol. 2nd edition, pp. 282-290): McGraw-Hill Education. (Reprinted from: 2nd edition).

Reygaert, W. C. (2014). The antimicrobial possibilities of green tea. *Frontiers In Microbiology, 5*, 434.

Richards, K. L., & Douglas, S. D. (1978). Pathophysiological effects of Vibrio cholerae and enterotoxigenic Escherichia coli and their exotoxins on eucaryotic cells. *Microbiological Reviews, 42*(3), 592.

Ron, E. Z. (2006). Host specificity of septicemic Escherichia coli: human and avian pathogens. *Current opinion in microbiology, 9*(1), 28-32.

Roy, R., Tiwari, M., Donelli, G., & Tiwari, V. (2018). Strategies for combating bacterial biofilms: A focus on anti-biofilm agents and their mechanisms of action. *Virulence, 9*(1), 522-554.

Saad, B., Azaizeh, H., & Said, O. (2005). Tradition and perspectives of Arab herbal medicine: a review. *Evidence-Based Complementary and Alternative Medicine, 2*(4), 475-479.

Saheb, T. S., Madarvali, S., Sameer, D., & Obaidullah, M. (2019). Ethno-medicinal significance of selected plant species mentioned in the Holy Qur'an and the Ahadith. *Journal of Pharmacognosy and Phytochemistry, 8*(1), 972-976.

Saleh, E. A., Tawfik, M. S., & Abu-Tarboush, H. M. (2011). Phenolic contents and antioxidant activity of various date palm (Phoenix dactylifera L.) fruits from Saudi Arabia. *Food and Nutrition Sciences, 2*(10), 1134.

Saleh, F. A., & Otaibi, M. M. (2013). Antibacterial Activity of Date Palm (PhoenixDectyliferaL.) Fruit at Different Ripening Stages. *Journal of Food Processing & Technology, 2013*.

Salleh, N. M., & Rani, M. D. M. (2013). *Basic Statistics for Medical and Health Sciences*: Universiti Sains Islam Malaysia.

Samad, M. A., Hashim, S. H., Simarani, K., & Yaacob, J. S. (2016). Antibacterial Properties and Effects of Fruit Chilling and Extract Storage on Antioxidant Activity, Total Phenolic and Anthocyanin Content of Four Date Palm (Phoenix dactylifera) Cultivars. *Molecules (Basel, Switzerland), 21*(4), 419-419. doi: 10.3390/molecules21040419

Samuelsson, G. (2004). Drugs of natural origin. Stockholm: Swedish Pharmaceutical Society: Swedish Pharmaceutical Press.

Sandhu, B. K. (2001). Rationale for early feeding in childhood gastroenteritis. *Journal of pediatric gastroenterology and nutrition, 33*, S13-S16.

Sasidharan, S., Chen, Y., Saravanan, D., Sundram, K. M., & Latha, L. Y. (2011). Extraction, isolation and characterization of bioactive compounds from plants' extracts. *African Journal of Traditional, Complementary and Alternative Medicines, 8*(1).

Sattar, S. B. A., & Singh, S. (2019). Bacterial Gastroenteritis *StatPearls [Internet]*: StatPearls Publishing.

Sazawal, S., Black, R. E., Bhan, M. K., Bhandari, N., Sinha, A., & Jalla, S. (1995). Zinc supplementation in young children with acute diarrhea in India. *New England Journal of Medicine, 333*(13), 839-844.

Schnadower, D., Finkelstein, Y., & Freedman, S. B. (2015). Ondansetron and probiotics in the management of pediatric acute gastroenteritis in developed countries. *Current opinion in gastroenterology, 31*(1), 1-6.

Serpico, M. R., Boyle, B. M., Kemper, K. J., & Kim, S. C. (2016). Complementary and alternative medicine use in children with inflammatory bowel diseases: a single-

center survey. *Journal of pediatric gastroenterology and nutrition, 63*(6), 651-657.

Shah, N., DuPont, H. L., & Ramsey, D. J. (2009). Global etiology of travelers' diarrhea: systematic review from 1973 to the present. *The American journal of tropical medicine and hygiene, 80*(4), 609-614.

Shan, B., Cai, Y.-Z., Brooks, J. D., & Corke, H. (2007). The in vitro antibacterial activity of dietary spice and medicinal herb extracts. *International journal of food microbiology, 117*(1), 112-119.

Shi, J., Yu, J., Pohorly, J., Young, J. C., Bryan, M., & Wu, Y. (2003). Optimization of the extraction of polyphenols from grape seed meal by aqueous ethanol solution. *J. Food Agric. Environ, 1*(2), 42-47.

Shimoni, Z., Pitlik, S., Leibovici, L., Samra, Z., Konigsberger, H., Drucker, M., .Weinberger, M. (1999). Nontyphoid Salmonella bacteremia: age-related differences in clinical presentation, bacteriology, and outcome. *Clinical Infectious Diseases, 28*(4), 822-827.

Shoaf, K., Mulvey, G. L., Armstrong, G. D., & Hutkins, R. W. (2006). Prebiotic galactooligosaccharides reduce adherence of enteropathogenic Escherichia coli to tissue culture cells. *Infection and immunity, 74*(12), 6920-6928.

Shoaf-Sweeney, K. D., & Hutkins, R. W. (2008). Adherence, anti-adherence, and oligosaccharides: preventing pathogens from sticking to the host. *Advances in food and nutrition research, 55*, 101-161.

Silva, A. J., & Benitez, J. A. (2016). Vibrio cholerae biofilms and cholera pathogenesis. *PLoS neglected tropical diseases, 10*(2).

Singh, V., Guizani, N., Essa, M. M., Hakkim, F. L., & Rahman, M. S. (2012). Comparative analysis of total phenolics, flavonoid content and antioxidant profile of different date varieties (Phoenix dactylifera L.) From Sultanate of Oman. *International Food Research Journal, 19*(3), 1063-1070.

Singleton, V. L., Orthofer, R., & Lamuela-Raventós, R. M. (1999). [14] Analysis of total phenols and other oxidation substrates and antioxidants by means of folin-ciocalteu reagent. *Methods in enzymology, 299*, 152-178.

Souli, A., Sebai, H., Rtibi, K., Chehimi, L., Sakly, M., Amri, M., & El-Benna, J. (2014). Effects of Dates Pulp Extract and Palm Sap (Phoenix dactylifera L.) on Gastrointestinal Transit Activity in Healthy Rats. *Journal of medicinal food, 17*(7), 782-786. doi: 10.1089/jmf.2013.0112

Soylu, S., Yigitbas, H., Soylu, E. M., & Kurt, Ş. (2007). Antifungal effects of essential oils from oregano and fennel on Sclerotinia sclerotiorum. *Journal of applied microbiology, 103*(4), 1021-1030.

Spigno, G., & Dante Marco, D. F. (2007). Antioxidants from grape stalks and marc: Influence of extraction procedure on yield, purity and antioxidant power of the extracts. *Journal of food engineering, 78*, 793-801. doi: 10.1016/j.jfoodeng.2005.11.020

Spina, A., Kerr, K. G., Cormican, M., Barbut, F., Eigentler, A., Zerva, L., Eerola, E. (2015). Spectrum of enteropathogens detected by the FilmArray GI Panel in a multicentre study of community-acquired gastroenteritis. *Clinical Microbiology and Infection, 21*(8), 719-728.

Stefanello, M. É. A., Cervi, A. C., Ito, I. Y., Salvador, M. J., Wisniewski Jr, A., & Simionatto, E. L. (2008). Chemical composition and antimicrobial activity of essential oils of Eugenia chlorophylla (Myrtaceae). *Journal of Essential Oil Research, 20*(1), 75-78.

Strömberg, N., Marklund, B. I., Lund, B., Ilver, D., Hamers, A., Gaastra, W., . Normark, S. (1990). Host-specificity of uropathogenic Escherichia coli depends on differences in binding specificity to Gal alpha 1-4Gal-containing isoreceptors. *The EMBO journal, 9*(6), 2001-2010.

Sulieman, A. M., Abd Elhafise, I., & Abdelrahim, A. (2012). Comparative study on five Sudanese date (Phoenix dactylifera L.) fruit cultivars.

Sumner, L. W., Mendes, P., & Dixon, R. A. (2003). Plant metabolomics: large-scale phytochemistry in the functional genomics era. *Phytochemistry, 62*(6), 817-836.

Syed, I. B. (2003). Spiritual medicine in the history of Islamic medicine. *J Int Soc History Islamic Med, 2*(1), 45-49.

Szajewska, H., Guarino, A., Hojsak, I., Indrio, F., Kolacek, S., Shamir, R., Weizman, Z. (2014). Use of probiotics for management of acute gastroenteritis: a position paper by the ESPGHAN Working Group for Probiotics and Prebiotics. *Journal of pediatric gastroenterology and nutrition, 58*(4), 531-539.

Tahraoui, A., El-Hilaly, J., Israili, Z., & Lyoussi, B. (2007). Ethnopharmacological survey of plants used in the traditional treatment of hypertension and diabetes in south-eastern Morocco (Errachidia province). *Journal of ethnopharmacology, 110*(1), 105-117.

Talaro, K. P., & Chess, B. (2018). *Foundations in microbiology*: McGraw-Hill.

Taleb, H., Morris, R. K., Withycombe, C. E., Maddocks, S. E., & Kanekanian, A. D. (2016). Date syrup–derived polyphenols attenuate angiogenic responses and exhibits anti-inflammatory activity mediated by vascular endothelial growth factor and cyclooxygenase-2 expression in endothelial cells. *Nutrition Research, 36*(7), 636-647.

Tapas, A. R., Sakarkar, D. M., & Kakde, R. B. (2008). Flavonoids as nutraceuticals: a review. *Tropical Journal of Pharmaceutical Research, 7*(3), 1089-1099.

Tate, J. E., Burton, A. H., Boschi-Pinto, C., Steele, A. D., Duque, J., & Parashar, U. D. (2012). 2008 estimate of worldwide rotavirus-associated mortality in children younger than 5 years before the introduction of universal rotavirus vaccination programmes: a systematic review and meta-analysis. *The Lancet infectious diseases, 12*(2), 136-141.

Tatsimo, S. J. N., Tamokou, J. d. D., Havyarimana, L., Csupor, D., Forgo, P., Hohmann, J., Tane, P. (2012). Antimicrobial and antioxidant activity of kaempferol rhamnoside derivatives from Bryophyllum pinnatum. *BMC Research Notes, 5*(1), 158. doi: 10.1186/1756-0500-5-158

Tenover, F. C. (2006). Mechanisms of antimicrobial resistance in bacteria. *The American journal of medicine, 119*(6), S3-S10.

Toivanen, M., Huttunen, S., Riihinen, K., Obey, J., & Tikkanen-Kaukanen, C. (2017). *Natural product based anti-adhesion therapy-innovative prevention against bacterial infections.* Paper presented at the NJF Seminar 495-4th organic Conference: Organics for tomorrow's food systems, 19-21 June 2017, Mikkeli, Finland.

Truong, D.-H., Nguyen, D. H., Ta, N. T. A., Bui, A. V., Do, T. H., & Nguyen, H. C. (2019). Evaluation of the use of different solvents for phytochemical constituents, antioxidants, and in vitro anti-inflammatory activities of Severinia buxifolia. *Journal of food quality, 2019*.

Usda, A. R. S. (2009). USDA National Nutrient Database for Standard Reference, release 26. *Nutrient Data Laboratory Home Page;*.

Üstündağ, Ö. G., Erşan, S., Özcan, E., Özan, G., Kayra, N., & Ekinci, F. Y. (2016). Black tea processing waste as a source of antioxidant and antimicrobial phenolic compounds. *European Food Research and Technology, 242*(9), 1523-1532.

Vayalil, P. K. (2002). Antioxidant and antimutagenic properties of aqueous extract of date fruit (Phoenix dactylifera L. Arecaceae). *Journal of agricultural and food chemistry, 50*(3), 610-617.

Vayalil, P. K. (2012). Date fruits (Phoenix dactylifera Linn): an emerging medicinal food. *Critical reviews in food science and nutrition, 52*(3), 249-271.

Vesterlund, S., Karp, M., Salminen, S., & Ouwehand, A. C. (2006). Staphylococcus aureus adheres to human intestinal mucus but can be displaced by certain lactic acid bacteria. *Microbiology, 152*(6), 1819-1826.

Vikram, A., Jayaprakasha, G., Jesudhasan, P., Pillai, S., & Patil, B. (2010). Suppression of bacterial cell-cell signalling, biofilm formation and type III secretion system by citrus flavonoids. *Journal of applied microbiology, 109*, 515-527. doi: 10.1111/j.1365-2672.2010.04677.x

Villamor, E., & Fawzi, W. W. (2000). Vitamin A supplementation: implications for morbidity and mortality in children. *The Journal of infectious diseases, 182*(Supplement_1), S122-S133.

Wang, H., Cao, G., & Prior, R. L. (1997). Oxygen radical absorbing capacity of anthocyanins. *Journal of agricultural and food chemistry, 45*(2), 304-309.

Wang, H., Naghavi, M., Allen, C., Barber, R. M., Bhutta, Z. A., Carter, A., Coates, M. M. (2016). Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980–2015: a systematic analysis for the Global Burden of Disease Study 2015. *The Lancet, 388*(10053), 1459-1544.

Wang, S., Wang, J., Mou, H., Luo, B., & Jiang, X. (2015). Inhibition of adhesion of intestinal pathogens (Escherichia coli, Vibrio cholerae, Campylobacter jejuni, and Salmonella Typhimurium) by common oligosaccharides. *Foodborne pathogens and disease, 12*(4), 360-365.

Wani, B., Mohammad, F., Khan, A., Bodha, R., Mohiddin, F., & Hamid, A. (2011). Some herbs mentioned in the holy Quran and Ahadith and their medicinal importance in contemporary times. *J Pharm Res, 11*, 3888-3891.

Webber, R. (2009). *Communicable disease epidemiology and control: a global perspective*: Cabi.

Wells, C. L., Jechorek, R. P., Kinneberg, K. M., Debol, S. M., & Erlandsen, S. L. (1999). The isoflavone genistein inhibits internalization of enteric bacteria by cultured Caco-2 and HT-29 enterocytes. *The Journal of nutrition, 129*(3), 634-640.

WHO. (2005). The treatment of diarrhoea, A manual for physicians and other senior health workers. Retrieved 27 December 2019, 2019, from https://www.who.int/maternal_child_adolescent/documents/9241593180/en/

WHO. (2017). Diarrhoeal disease. *fact sheet.* Retrieved 27 December 2019, 2019, from https://www.who.int/news-room/fact-sheets/detail/diarrhoeal-disease

World Health, O. (2001). Legal status of traditional medicine and complementary: Geneva: World Health Organization.

World Health, O. (2015). *WHO estimates of the global burden of foodborne diseases: foodborne disease burden epidemiology reference group 2007-2015*: World Health Organization.

World Health, O. (2017). Legal status of traditional medicine and complementary/alternative medicine: a worldwide review. Geneva: World Health Organization; 2001.

Williams, P. C., & Berkley, J. A. (2018). Guidelines for the treatment of dysentery (shigellosis): a systematic review of the evidence. Paediatrics and international child health, 38(sup1), S50-S65.

Wu, V. C.-H., Qiu, X., Bushway, A., & Harper, L. (2008). Antibacterial effects of American cranberry (Vaccinium macrocarpon) concentrate on foodborne pathogens. *LWT-Food Science and Technology, 41*(10), 1834-1841.

Xie, Y., Yang, W., Chen, X., & Ren, L. (2014). Antibacterial Activities of Flavonoids: Structure-Activity Relationship and Mechanism. *Current Medicinal Chemistry, 22*. doi: 10.2174/09298673216661409161134 43

Xie, Y., Yang, W., Tang, F., Chen, X., & Ren, L. (2015). Antibacterial activities of flavonoids: structure-activity relationship and mechanism. *Current medicinal chemistry, 22*(1), 132-149.

Zangiabadi, N., Asadi-Shekaari, M., Sheibani, V., Jafari, M., Shabani, M., Asadi, A. R., Jarahi, M. (2011). Date fruit extract is a neuroprotective agent in diabetic peripheral neuropathy in streptozotocin-induced diabetic rats: a multimodal analysis. *Oxidative medicine and cellular longevity, 2011*.

Zhang, C.-R., Aldosari, S. A., Vidyasagar, P. S. P. V., Nair, K. M., & Nair, M. G. (2013). Antioxidant and anti-inflammatory assays confirm bioactive compounds in Ajwa date fruit. *Journal of agricultural and food chemistry, 61*(24), 5834-5840.

Zhang, Q.-W., Lin, L.-G., & Ye, W.-C. (2018). Techniques for extraction and isolation of natural products: A comprehensive review. *Chinese Medicine, 13*(1), 20.

Zhang, S., Bao, A., Sun, T., Wang, E., & Wang, J. (2015). PEI/Zr4+-coated nanopore for selective and sensitive detection of ATP in combination with single-walled carbon nanotubes. *Biosensors and Bioelectronics, 63*, 287-293. doi: 10.1016/j.bios.2014.07.062

Zhao, D., & Shah, N. P. (2015). Tea and soybean extracts in combination with milk fermentation inhibit growth and enterocyte adherence of selected foodborne pathogens. *Food chemistry, 180*, 306-316.