

FRUIT JUICE NUTRITION & HEALTH – IFU SCIENTIFIC REVIEW

REFERENCES (October 2012)

Alçada MN, Monteiro R, Calhau C, Azevedo I. Orange juice vs soft drinks. *Arch Intern Med.* (2009), 169:315.

American Academy of Pediatrics (ADA): The use and misuse of fruit juice in pediatrics. Committee on Nutrition. *Pediatrics.* (2001), 107:1210-1213.

American Dental Association. Fluoride, Nature's Cavity Fighter. *Journal of the American Dental Association,* 136:1783, 2005.

http://www.ada.org/sections/scienceandresearch/pdfs/patient_57.pdf

Andon MB, Peacock M, Kanerva RL, De Castro JA. Calcium absorption from apple and orange juice fortified with calcium citrate malate (CCM). *J Am Coll Nutr.* (1996), 15:313-316.

Arai KY, Sato Y, Kondo Y, Kudo C, Tsuchiya H, Nomura Y, Ishigami A, Nishiyama T. Effects of vitamin C deficiency on the skin of the senescence marker protein-30 (SMP30) knockout mouse. *Biochem Biophys Res Commun.* (2009) 385:478-483

Aruoma OI, Landes B, Ramful-Baboolall D, Bourdon E, Neergheen-Bhujun V, Wagner KH, Bahorun T Functional benefits of citrus fruits in the management of diabetes. *Prev Med.* (2012) 54 Suppl:S12-6

Aviram M, Dornfeld L, Kaplan M, Coleman R, Gaitini D, Nitecki S, Hofman A, Rosenblat M, Volkova N, Presser D, Attias J, Hayek T, Fuhrman B. Pomegranate juice flavonoids inhibit low-density lipoprotein oxidation and cardiovascular diseases: studies in atherosclerotic mice and in humans. *Drugs Exp Clin Res.* (2002), 28:49-62.

Azzi A, Davies KJ, Kelly F. Free radical biology - terminology and critical thinking. *FEBS Lett.* (2004), 558:3-6.

Bae JY, Lim SS, Kim SJ, Choi JS, Park J, Ju SM, Han SJ, Kang IJ, Kang YH. Bog blueberry anthocyanins alleviate photoaging in ultraviolet-B irradiation-induced human dermal fibroblasts. *Mol Nutr Food Res.* (2009), 53:726-38.

Baghurst K. The Health Benefits of Citrus Fruits. *Health Sciences & Nutrition.* CSIRO. (2003).

Basu A, Penugonda K. Pomegranate juice: a heart-healthy fruit juice. *Nutr Rev.* (2009), 67:49-56.

Bell KN, Oakley GP Jr. Update on prevention of folic acid-preventable spina bifida and anencephaly. *Birth Defects Res A Clin Mol Teratol.* (2009),85:102-107.

Benavente-García O, Castillo J. Update on uses and properties of citrus flavonoids: new findings in anticancer, cardiovascular, and anti-inflammatory activity. *J Agric Food Chem.* (2008), 56:6185-6205.

- Blüher M. The inflammatory process of adipose tissue. *Pediatr Endocrinol Rev.* (2008), 6:24-31.
- Bok SH, Lee SH, Park YB, Bae KH, Son KH, Jeong TS, Choi MS. Plasma and hepatic cholesterol and hepatic activities of 3-hydroxy-3-methyl-glutaryl-CoA reductase and acyl CoA: cholesterol transferase are lower in rats fed citrus peel extract or a mixture of citrus bioflavonoids. *J Nutr.* (1999), 129:1182-1185.
- Bucova M, Bernadic M, Buckingham T. C-reactive protein, cytokines and inflammation in cardiovascular diseases. *Bratisl Lek Listy.* (2008), 109:333-340.
- Bukowski R, Malone FD, Porter FT, Nyberg DA, Comstock CH, Hankins GD, Eddleman K, Gross SJ, Dugoff L, Craigo SD, Timor-Tritsch IE, Carr SR, Wolfe HM, D'Alton ME. Preconceptional folate supplementation and the risk of spontaneous preterm birth: a cohort study. *PLoS Med.* (2009).
- Cerdá B, Espín JC, Parra S, Martínez P, Tomás-Barberán FA. The potent in vitro antioxidant ellagitannins from pomegranate juice are metabolised into bioavailable but poor antioxidant hydroxy-6H-dibenzopyran-6-one derivatives by the colonic microflora of healthy humans. *Eur J Nutr.* (2004), 43:205-220.
- Chiba H, Uehara H, Ishimi Y, Suzuki K, Kim Y, Matsumoto A. Hesperidin, a citrus flavonoid, prevents bone loss in ovariectomized aged mice. *Third International Conference on Polyphenols and Health* (2007).
- Chong MF, Macdonald R, Lovegrove JA. Fruit polyphenols and CVD risk: a review of human intervention studies. *Br J Nutr.* (2010)104 Suppl 3:S28-39.
- Codex general standard for fruit juices and nectars (CODEX STAN 247-2005)
- Cosgrove MC, Franco OH, Granger SP, Murray PG, Mayes AE. Dietary nutrient intakes and skin-aging appearance among middle-aged American women. *Am J Clin Nutr.* (2007), 86:1225-31.
- Crozier A, Jaganath IB, Clifford MN. Dietary phenolics: chemistry, bioavailability and effects on health. *Nat Prod Rep.* (2009), 26:1001-1043.
- Cutler GJ, Nettleton JA, Ross JA, Harnack LJ, Jacobs DR Jr, Scrafford CG, Barraj LM, Mink PJ, Robien K. Dietary flavonoid intake and risk of cancer in postmenopausal women: the Iowa Women's Health Study. *Int J Cancer.* (2008), 123:664-671.
- Dai Q, Borenstein AR, Wu Y, Jackson JC, Larson EB. Fruit and vegetable juices and Alzheimer's: the Kame Project. *Am J Med.* (2006), 119:751-9.
- Dalgård C, Nielsen F, Morrow JD, Enghusen-Poulsen H, Jonung T, Hørder M, de Maat MP. Supplementation with orange and blackcurrant juice, but not vitamin E, improves inflammatory markers in patients with peripheral arterial disease. *Br J Nutr.* (2009),101:263-9.
- Datla KP, Christidou M, Widmer WW, Rooprai HK, Dexter DT. Tissue distribution and neuroprotective effects of citrus flavonoid tangeretin in a rat model of Parkinson's disease. *Neuroreport.* (2001), 12:3871-5.

- Davis RE, Marshall TA, Qian F, Warren JJ, Wefel JS. In vitro protection against dental erosion afforded by commercially available, calcium-fortified 100 percent juices. *J Am Dent Assoc.* (2007), 138:1593-1598.
- De Nigris F, Williams-Ignarro S, Lerman LO, Crimi E, Botti C, Mansueto G, D'Armiento FP, De Rosa G, Sica V, Ignarro LJ, Napoli C. Beneficial effects of pomegranate juice on oxidation-sensitive genes and endothelial nitric oxide synthase activity at sites of perturbed shear stress. *Proc Natl Acad Sci U S A.* (2005),102:4896-4901.
- DeFuria J, Bennett G, Strissel KJ, Perfield JW 2nd, Milbury PE, Greenberg AS, Obin MS. Dietary blueberry attenuates whole-body insulin resistance in high fat-fed mice by reducing adipocyte death and its inflammatory sequelae. *J Nutr.* (2009), 139:1510-1516.
- Delichatsios HK, Welty FK. Influence of the DASH diet and other low-fat, high-carbohydrate diets on blood pressure. *Curr Atheroscler Rep.* (2005), 7:446-454.
- Devaraj S, Jialal I, Vega-López S. Plant sterol-fortified orange juice effectively lowers cholesterol levels in mildly hypercholesterolemic healthy individuals. *Arterioscler Thromb Vasc Biol.* (2004), 24:e25-8.
- Deyhim F, Mandadi K, Faraji B, Patil BS. Grapefruit juice modulates bone quality in rats. *J Med Food.* (2008),1:99-104.
- Dillon A, Fruit juice profiles. In “Methods to detect adulteration of fruit juice beverages”. Nagy S, Wade RL. eds. (1995), AGscienceAuburndale, Fl.. Appendix II 359-433.
- Duarte TL, Cooke MS, Jones GD. Gene expression profiling reveals new protective roles for vitamin C in human skin cells. *Free Radic Biol Med.* (2009),46:78-87.
- Duthie SJ, Jenkinson AM, Crozier A, Mullen W, Pirie L, Kyle J, Yap LS, Christen P, Duthie GG. The effects of cranberry juice consumption on antioxidant status and biomarkers relating to heart disease and cancer in healthy human volunteers. *Eur J Nutr.* (2006), 45:113-122.
- Ehlen LA, Marshall TA, Qian F, Wefel JS, Warren JJ. Acidic beverages increase the risk of in vitro tooth erosion. *Nutr Res.* (2008), 28(5):299-303.
- Ekshyyan VP, Hebert VY, Khandelwal A, Dugas TR. Resveratrol inhibits rat aortic vascular smooth muscle cell proliferation via estrogen receptor dependent nitric oxide production. *J Cardiovasc Pharmacol.* (2007), 50:83-93.
- Erdman JW Jr, Ford NA, Lindshield BL. Are the health attributes of lycopene related to its antioxidant function? *Arch Biochem Biophys.* (2009) 483:229-235
- Faith MS, Dennison BA, Edmunds LS, Stratton HH. Fruit juice intake predicts increased adiposity gain in children from low-income families: weight status-by environment interaction. *Pediatrics.* (2006), 118:2066-2075.

- Fardet A, Llorach R, Orsoni A, Martin JF, Pujos-Guillot E, Lapierre C, Scalbert A. Metabolomics provide new insight on the metabolism of dietary phytochemicals in rats. *J Nutr.* (2008), 138:1282-1287.
- Ferrazzano GF, Amato I, Ingenito A, De Natale A, Pollio A. Anti-cariogenic effects of polyphenols from plant stimulant beverages (cocoa, coffee, tea). *Fitoterapia.* (2009), 80(5):255-62.
- Foster-Powell K, Holt SA, Brand-Miller JC. International Table of Glycemic Index and Glycemic Load Values. *Am J Clin Nutr.* (2001), 76:5-56.
- Freedman JE, Parker C 3rd, Li L, Perlman JA, Frei B, Ivanov V, Deak LR, Iafrati MD, Folts JD. Select flavonoids and whole juice from purple grapes inhibit platelet function and enhance nitric oxide release. *Circulation.* (2001), 103:2792-2798.
- Frikke-Schmidt H, Lykkesfeldt J. Role of marginal vitamin C deficiency in atherogenesis: in vivo models and clinical studies. *Basic Clin Pharmacol Toxicol.* (2009), 104:419-433.
- George TW, Niwat C, Waroonphan S, Gordon MH, Lovegrove JA. Effects of chronic and acute consumption of fruit- and vegetable-puree-based drinks on vasodilation, risk factors for CVD and the response as a result of the eNOS G298T polymorphism. *Proc Nutr Soc.* (2009), 68:148-61.
- Gerhaeuser C. Cancer chemopreventive potential of apples, apple juice, and apple components. *Planta Med.* (2008), 74:1608-1624.
- Ghanim H, Mohanty P, Pathak R, Chaudhuri A, Sia CL, Dandona P. Orange juice or fructose intake does not induce oxidative and inflammatory response. *Diabetes Care.* (2007), 30:1406-1411.
- Gonda TA, Tu S, Wang TC. Chronic inflammation, the tumor microenvironment and carcinogenesis. *Cell Cycle.* (2009), 8:2005-2013.
- González-Gallego J, García-Mediavilla MV, Sánchez-Campos S, Tuñón MJ. Fruit polyphenols, immunity and inflammation. *Br J Nutr.* (2010)104 Suppl 3:S15-27
- Gorinstein S, Caspi A, Libman I, Katrich E, Lerner HT, Trakhtenberg S. Fresh israeli jaffa sweetie juice consumption improves lipid metabolism and increases antioxidant capacity in hypercholesterolemic patients suffering from coronary artery disease: studies in vitro and in humans and positive changes in albumin and fibrinogen fractions. *J Agric Food Chem.* (2004), 52:5215-5222.
- Gorinstein S, Caspi A, Libman I, Lerner HT, Huang D, Leontowicz H, Leontowicz M, Tashma Z, Katrich E, Feng S, Trakhtenberg S. Red grapefruit positively influences serum triglyceride level in patients suffering from coronary atherosclerosis: studies in vitro and in humans. *J Agric Food Chem.* (2006), 54:1887-1892.
- Granic I, Dolga AM, Nijholt IM, van Dijk G, Eisel UL. Inflammation and NF-kappaB in Alzheimer's disease and diabetes. *J Alzheimers Dis.* (2009), 16:809-821.

- Grassi D, Desideri G, Croce G, Tiberti S, Aggio A, Ferri C. Flavonoids, vascular function and cardiovascular protection. *Curr Pharm Des.* (2009), 15:1072-1084.
- Guay DR. Cranberry and urinary tract infections. *Drugs.* (2009), 69:775-807.
- Habauzit V, Trzeciakiewicz A, Gil-izquierdo A, Mardon J, Morand C, Davicco MJ, Lebeque P, Offord E, Coxam V, Horcajada MN. Hesperidin and naringin, two main flavonoids of citrus fruits, improve bone metabolism in senescent male rats. *Third International Conference on Polyphenols and Health* (2007).
- Habauzit V, Nielsen IL, Gil-Izquierdo A, Trzeciakiewicz A, Morand C, Chee W, Barron D, Lebecque P, Davicco MJ, Williamson G, Offord E, Coxam V, Horcajada MN. Increased bioavailability of hesperetin-7-glucoside compared with hesperidin results in more efficient prevention of bone loss in adult ovariectomised rats. *Br J Nutr.* (2009), 27:1-9.
- Hadipour-Jahromy M, Mozaffari-Kermani R. Chondroprotective effects of pomegranate juice on monoiodoacetate-induced osteoarthritis of the knee joint of mice. *Phytother Res.* (2010), 24 (2): 182-185.
- Hannig C, Sorg J, Spitzmüller B, Hannig M, Al-Ahmad A. Polyphenolic beverages reduce initial bacterial adherence to enamel in situ. *J Dent.* (2009), 37(7):560-566.
- Hardcastle AC, Aucott L, Reid DM, Macdonald HM. Associations between dietary flavonoid intakes and bone health in a Scottish population. *J Bone Miner Res.* (2010) DOI: 10.1002/jbmr.285
- Hardy R, Cooper MS. Bone loss in inflammatory disorders. *J Endocrinol.* (2009), 201:309-320.
- Harrison FE, May JM. Vitamin C function in the brain: vital role of the ascorbate transporter SVCT2. *Free Radic Biol Med.* (2009), 46:719-730.
- Hiraishi, N., Sono, R., Islam, M.S., Otsuki, M., Tagami, J., & Takatsuka, T., (2011) Effect of hesperidin in vitro on root dentine collagen and demineralization. *J Dent.* 39:391-396.
- Hochman N, Houry-Haddad Y, Koblinski J, Wahl L, Roniger M, Bar-Sinai A, Weiss EI, Hochman J. Cranberry juice constituents impair lymphoma growth and augment the generation of antilymphoma antibodies in syngeneic mice. *Nutr Cancer.* (2008), 60):511-517.
- Holst B, Williamson G. Nutrients and phytochemicals: from bioavailability to bioefficacy beyond antioxidants. *Curr Opin Biotechnol.* (2008), 19(2):73-82.
- Holt EM, Steffen LM, Moran A, Basu S, Steinberger J, Ross JA, Hong CP, Sinaiko AR. Fruit and vegetable consumption and its relation to markers of inflammation and oxidative stress in adolescents. *J Am Diet Assoc.* (2009), 109:414-421.
- Hooper SM, Newcombe RG, Faller R, Eversole S, Addy M, West NX. The protective effects of toothpaste against erosion by orange juice: studies in situ and in vitro. *J Dent.* (2007), 35:476-481.

Horcajada MN, Habauzit V, Trzeciakiewicz A, Morand C, Gil-Izquierdo A, Mardon J, Lebecque P, Davicco MJ, Chee WS, Coxam V, Offord E. Hesperidin inhibits ovariectomized-induced osteopenia and shows differential effects on bone mass and strength in young and adult intact rats. *J Appl Physiol.* (2008), 104:648-54.

<http://www.fruitsandveggiesmatter.gov>

<http://www.phenol-explorer.eu/> (2009)

International Life Sciences Institute Europe. Oral and Dental Health: Prevention of Dental Caries, Erosion, Gingivitis and Periodontitis, 2009.

http://www.ilsa.org/europe/publications/c2009oral_den.pdf

Iriti M, Faoro F. Bioactivity of grape chemicals for human health. *Nat Prod Commun.* (2009), 4:611-634.

Joseph JA, Shukitt-Hale B, Willis LM. Grape Juice, Berries, and Walnuts Affect Brain Aging and Behavior. *J Nutr.* (2009), 139:1813S-1817S.

Kanapuru B, Ershler WB. Inflammation, coagulation, and the pathway to frailty. *Am J Med.* (2009)122:605-13

Kannappan S, Anuradha CV. Naringenin enhances insulin-stimulated tyrosine phosphorylation and improves the cellular actions of insulin in a dietary model of metabolic syndrome. *Eur J Nutr.* 2009 Sep 2. [Epub ahead of print]

Kelly RP, Poo Yeo K, Isaac HB, Lee CY, Huang SH, Teng L, Halliwell B, Wise SD. Lack of effect of acute oral ingestion of vitamin C on oxidative stress, arterial stiffness or blood pressure in healthy subjects. *Free Radic Res.* (2008) 42:514-522.

King GL. The role of inflammatory cytokines in diabetes and its complications. *J Periodontol.* (2008),79 :Suppl1527-1534.

Koltover V. Bioantioxidants: the systems reliability standpoint. *Toxicol Ind Health.* (2009), 25:295-299.

Kyle JA, Sharp L, Little J, Duthie GG, McNeill G. Dietary flavonoid intake and colorectal cancer: a case-control study. *Br J Nutr.* 2009 7:1-8.

Lam CK, Zhang Z, Yu H, Tsang SY, Huang Y, Chen ZY. Apple polyphenols inhibit plasma CETP activity and reduce the ratio of non-HDL to HDL cholesterol. *Mol Nutr Food Res.* (2008), 52:950–958.

Landon S. Fruit juice nutrition and health. *Food Australia.* (2007), 59:533-538.

Lee CY, Isaac HB, Huang SH, Long LH, Wang H, Gruber J, Ong CN, Kelly RP, Halliwell B. Limited antioxidant effect after consumption of a single dose of tomato sauce by young males, despite a rise in plasma lycopene. *Free Radic Res.* (2009), 43:622-628.

Leifert WR, Abeywardena MY. Cardioprotective actions of grape polyphenols. *Nutr Res.* (2008), 28:729-737.

- Levine M, Dhariwal R K, Washko PW, Welch RW, Wang Y. Cellular functions of ascorbic acid: a means to determine vitamin C requirements. *Asia Pacific J Clin Nutr.* (1993), 2, Suppl 1, 5-13.
- Lim S, Sohn W, Burt BA, Sandretto AM, Kolker JL, Marshall TA, Ismail AI. Cariogenicity of soft drinks, milk and fruit juice in low-income african-american children: a longitudinal study. *J Am Dent Assoc.* (2008), 139:959-67.
- Macready AL, Kennedy OB, Ellis JA, Williams CM, Spencer JP, Butler LT. Flavonoids and cognitive function: a review of human randomized controlled trial studies and recommendations for future studies. *Genes Nutr.* (2009) 4(4):227-42.
- Maeng HG, Lim H, Jeong YJ, Woo A, Kang JS, Lee WJ, Hwang YI. Vitamin C enters mouse T cells as dehydroascorbic acid in vitro and does not recapitulate in vivo vitamin C effects. *Immunobiology.* (2009), 214:311-320.
- Mandadi K, Ramirez M, Jayaprakasha GK, Faraji B, Lihono M, Deyhim F, Patil BS. Citrus bioactive compounds improve bone quality and plasma antioxidant activity in orchidectomized rats. *Phytomedicine.* (2009),16:513-520.
- Manners GD. limonoids: analysis, bioactivity, and biomedical prospects. *J Agric Food Chem.* (2007), 55:8285-8294.
- Marques FZ, Markus MA, Morris BJ. Resveratrol: Cellular actions of a potent natural chemical that confers a diversity of health benefits. *Int J Biochem Cell Biol.* (2009), 41 :2125-2128.
- Martí N, Mena P, Cánovas JA, Micol V, Saura D. Vitamin C and the role of citrus juices as functional food. *Nat Prod Commun.* 2009, 4:677-700.
- Matsunaga N, Tsuruma K, Shimazawa M, Yokota S, Hara H. Inhibitory actions of bilberry anthocyanidins on angiogenesis. *Phytother Res.* (2010); 24 Suppl 1:S42-7
- Mattiello T, Trifirò E, Jotti GS, Pulcinelli FM. Effects of pomegranate juice and extract polyphenols on platelet function. *J Med Food.* (2009), 12:334-339.
- Mauray A, Felgines C, Morand C, Mazur A, Scalbert A, Milenkovic D. Nutrigenomic analysis of the protective effects of bilberry anthocyanin-rich extract in apo E-deficient mice *Genes Nutr.* (2010);5:343-353
- Mendoza R. New International Table of Glycemic Index (GI) and Glycemic Load Values. *Am J Clin Nutr.* (2003) 77(4):994
- Morand C, Milenkovic D., Lioger D., Martin JF, Dubray C, Scalbert A., Mazur A. Hesperidin contributes to the vascular protective effects of orange juice: a randomized crossover study in healthy. *Am J Clin Nutr.* (2011a), 93: 73-80
- Morand C., Milenkovic D., Chanet A., Deval C, Mazur A (2011b) Nutrigenomic effects of hesperidin, the major polyphenol of orange, related to its cardiovascular protective effects *Experimental Biology 2011 Conference* Washington, D.C
- Morin B, Nichols LA, Zalasky KM, Davis JW, Manthey JA, Holland LJ. The citrus flavonoids hesperetin and nobiletin differentially regulate low density

- lipoprotein receptor gene transcription in HepG2 liver cells. *J Nutr.* (2008), 138:1274-1281.
- Mori-Okamoto J, Otawara-Hamamoto Y, Yamato H, Yoshimura H. Pomegranate extract improves a depressive state and bone properties in menopausal syndrome model ovariectomized mice. *J Ethnopharmacol.* (2004), 92:93-101.
- Mulvihill EE, Allister EM, Sutherland BG, Telford DE, Sawyez CG, Edwards JY, Markle JM, Hegele RA, Huff MW. Naringenin prevents dyslipidemia, apoB overproduction and hyperinsulinemia in LDL-receptor null mice with diet-induced insulin resistance. *Diabetes.* (2009) 58(10):2198-210.
- Mulvihill EE, Huff MW. Citrus flavonoids and the prevention of atherosclerosis. *Cardiovasc Hematol Disord Drug Targets.* (2012) 12: xx-xx
- Murakami A, Song M, Katsumata S, Uehara M, Suzuki K, Ohigashi H. Citrus nobiletin suppresses bone loss in ovariectomized ddY mice and collagen-induced arthritis in DBA/1J mice: possible involvement of receptor activator of NF-kappaB ligand (RANKL)-induced osteoclastogenesis regulation. *Biofactors.* (2007), 30:179-192.
- Nahmias Y, Goldwasser J, Casali M, van Poll D, Wakita T, Chung RT, Yarmush ML. Apolipoprotein B-dependent hepatitis C virus secretion is inhibited by the grapefruit flavonoid naringenin. *Hepatology.* (2008), 47:1437-1445.
- Neto CC. Cranberry and blueberry: evidence for protective effects against cancer and vascular diseases. *Mol Nutr Food Res.* (2007) ,51:652-664.
- Neukam K, Stahl W, Tronnier H, Sies H, Heinrich U. Consumption of flavanol-rich cocoa acutely increases microcirculation in human skin. *Eur J Nutr.* (2007), 46:53-56.
- Newby PK, Peterson KE, Berkey CS, Leppert J, Willett WC, Colditz GA. Beverage consumption is not associated with changes in weight and body mass index among low-income preschool children in North Dakota. *J Am Diet Assoc.* (2004), 104:1086-1094.
- Nicklas TA, O'Neil CE, Kleinman R. Association between 100% juice consumption and nutrient intake and weight of children aged 2 to 11 years. *Arch Pediatr Adolesc Med.* (2008), 162:557-565.
- O'Neil, CE and Nicklas, TA. A Review of the Relationship Between 100% Fruit Juice Consumption and Weight in Children and Adolescents. *American Journal of Lifestyle Medicine.* (2008), 2:315-354.
- O'Connor TM, Yang SJ, Nicklas TA. Beverage intake among preschool children and its effect on weight status. *Pediatrics.* (2006), 118:e1010-1018.
- Ovesná J, Slabý O, Toussaint O, Kodíček M, Marsík P, Pouchová V, Vaněk T. High throughput 'omics' approaches to assess the effects of phytochemicals in human health studies. *Br J Nutr.* (2008),99E Suppl: ES127-134.

- Palmer JR, Boggs DA, Krishnan S, Hu FB, Singer M, Rosenberg L. Sugar-Sweetened Beverages and Incidence of Type 2 Diabetes Mellitus in African American Women. *Arch Int Med.* (2008), 168:1487-1492.
- Pezzuto JM, Venkatasubramanian V, Hamad M, Morris KR. Unraveling the Relationship between Grapes and Health. *J Nutr.* (2009),139:1783S-1787S.
- Poulose SM, Harris ED, Patil BS. Antiproliferative effects of citrus limonoids against human neuroblastoma and colonic adenocarcinoma cells. *Nutr Cancer.* (2006), 56:103-112.
- Qin Y, Xia M, Ma J, Hao Y, Liu J, Mou H, Cao L, Ling W. Anthocyanin supplementation improves serum LDL- and HDL-cholesterol concentrations associated with the inhibition of cholesteryl ester transfer protein in dyslipidemic subjects. *Am J Clin Nutr.* (2009), 90:485-492
- Ren YF, Amin A, Malmstrom H. Effects of tooth whitening and orange juice on surface properties of dental enamel. *J Dent.* (2009), 37:424-31.
- Reshef N, Hayari Y, Goren C, Boaz M, Madar Z, Knobler H. Antihypertensive effect of sweetie fruit in patients with stage I hypertension. *Am J Hypertens.* (2005), 18:1360-1363.
- Ross SM. Pomegranate: its role in cardiovascular health. *Holist Nurs Pract.* (2009), 23:195-197.
- Ruxton CH, Gardner EJ, Walker D. Can pure fruit and vegetable juices protect against cancer and cardiovascular disease too? A review of the evidence. *Int J Food Sci Nutr.* (2006), 57:249-272.
- Sahni S, Hannan MT, Blumberg J, Cupples LA, Kiel DP, Tucker KL. Protective effect of total carotenoid and lycopene intake on the risk of hip fracture: a 17-year follow-up from the Framingham Osteoporosis Study. *J Bone Miner Res.* (2009a), 24:1086-1094.
- Sahni S, Hannan MT, Blumberg J, Cupples LA, Kiel DP, Tucker KL. Inverse association of carotenoid intakes with 4-y change in bone mineral density in elderly men and women: the Framingham Osteoporosis Study. *Am J Clin Nutr.* (2009b) 89:416-424.
- Sánchez-Moreno C, Jiménez-Escrig A, Martín A. Stroke: roles of B vitamins, homocysteine and antioxidants. *Nutr Res Rev.* (2009), 22:49-67.
- Scalbert A, Johnson IT, Saltmarsh M. Polyphenols: antioxidants and beyond. *Am J Clin Nutr.* (2005), 81:215S-217S.
- Scalbert A, Knasmüller S. Genomic effects of phytochemicals and their implication in the maintenance of health. *J Nutr.* (2008), 99E Suppl ES1-2.
- Scaramucci, T., Hara, A.T., Zero, D.T., Ferreira, S.S., Aoki, I.V., & Sobral, M.A. (2011) In vitro evaluation of the erosive potential of orange juice modified by food additives in enamel and dentine. *J. Dent.* 39:841-8.

- Seeram NP. Berry fruits: compositional elements, biochemical activities, and the impact of their intake on human health, performance, and disease. *J Agric Food Chem.* (2008), 56:627-629.
- Serafini M. Rise and fall of dietary antioxidants for disease prevention: magic bullets; false myth or scare knowledge. *Fav health.* (2009).
- Sheretz E, Goldsmith LA. Nutritional influences on the skin. In: Goldsmith LA, ed. *Physiology, biochemistry, and molecular biology of the skin.* New York, NY Oxford University Press. (1991), 1315–1328.
- Shukitt-Hale B, Cheng V, Joseph JA. Effects of blackberries on motor and cognitive function in aged rats. *Nutr Neurosci.* (2009), 12:135-140.
- Shukitt-Hale B, Lau FC, Joseph JA. Berry fruit supplementation and the aging brain. *J Agric Food Chem.* (2008),56:636-641.
- Shukla M, Gupta K, Rasheed Z, Khan KA, Haqqi TM. Consumption of hydrolyzable tannins-rich pomegranate extract suppresses inflammation and joint damage in rheumatoid arthritis. *Nutrition.* (2008), 24:733-743.
- Sies H. Total antioxidant capacity: appraisal of a concept. *J Nutr.* (2007), 137:1493-1495.
- Skinner JD, Carruth BR, Moran J, Houck K, and Coletta F. Fruit Juice Intake Is Not Related to Children's Growth. *Pediatrics.* (1999), 103:58-64.
- Skinner JD, Carruth BR. A longitudinal study of children's juice intake and growth: the juice controversy revisited. *J Am Diet Assoc.* (2001), 101: 432–437.
- Soler C, Soriano JM, Mañes J. Apple-products phytochemicals and processing: a review. *Nat Prod Commun.* (2009), 4:659-670.
- Spencer JP. Flavonoids: modulators of brain function? *Br J Nutr.* (2008) 99 E Suppl 1:ES60-77
- Spencer JP. The impact of flavonoids on memory: physiological and molecular considerations. *Chem Soc Rev.* (2009a), 38:1152-61.
- Spencer JP. Flavonoids and brain health: multiple effects underpinned by common mechanisms. *Genes Nutr.* (2009b), 4(4):243-50
- Spencer JP. The impact of fruit flavonoids on memory and cognition *Br J. Nutr* (2010), 104, S40–S47
- Stahl W, Sies H. Carotenoids and flavonoids contribute to nutritional protection against skin damage from sunlight. *Mol Biotechnol.* (2007), 37:26-30.
- Steiner C, Arnould S, Scalbert A, Manach C. Isoflavones and the prevention of breast and prostate cancer: new perspectives opened by nutrigenomics. *Br J Nutr.* (2008), 99 E Suppl ES78-108.
- Stevenson DE, Hurst RD. Polyphenolic phytochemicals—just antioxidants or much more? *Cell Mol Life Sci.* (2007), 64:2900-2916.

- Stipcevic T, Piljac J, Vanden Berghe D. Effect of different flavonoids on collagen synthesis in human fibroblasts. *Plant Foods Hum Nutr.* (2006), 61:29-34.
- Sugiura M, Nakamura M, Ogawa K, Ikoma Y, Ando F, Yano M. Bone mineral density in post-menopausal female subjects is associated with serum antioxidant carotenoids. *Osteoporos Int.* (2008), 19: 211-219.
- Szajdek A, Borowska EJ. Bioactive compounds and health-promoting properties of berry fruits: a review. *Plant Foods Hum Nutr.* (2008),63:147-156.
- Tanaka K, Miyake Y, Sasaki S, Ohya Y, Matsunaga I, Yoshida T, Hirota Y, Hajime O, Kanzaki H, Kitada M, Horikoshi Y, Ishiko O, Nakai Y, Nishio J, Yamamasu S, Yasuda J, Kawai S, Yanagihara K, Wakuda K, Kawashima T, Narimoto K, Iwasa Y, Orino K, Tsunetoh I, Yoshida J, Iito J, Kaneko T, Sanfujinka K, Kamiya T, Kuribayashi H, Taniguchi T, Takemura H, Morimoto Y. Beverage consumption and the prevalence of tooth loss in pregnant Japanese women: the Osaka Maternal and Child Health Study. *Osaka Maternal and Child Health Study Group. Fukuoka Igaku Zasshi.* (2008), 99:80-89.
- Thomas AE. Some observations on the influence of orange juice ingestion on the teeth and supporting structures. *Oral Surg Oral Med Oral Pathol.* (1954), 7:741-749.
- Thomasset S, Berry DP, Cai H, West K, Marczylo TH, Marsden D, Brown K, Dennison A, Garcea G, Miller A, Hemingway D, Steward WP, Gescher AJ. Pilot study of oral anthocyanins for colorectal cancer chemoprevention. *Cancer Prev Res (Phila Pa).* (2009), 2:625-633.
- Trzeciakiewicz A, Habauzit V, Horcajada MN. When nutrition interacts with osteoblast function: molecular mechanisms of polyphenols. *Nutr Res Rev.* (2009), 22:68-81.
- Trzeciakiewicz A, Habauzit V, Mercier S, Lebecque P, Davicco MJ, Coxam V, Demigne C, Horcajada MN. Hesperetin stimulates differentiation of primary rat osteoblasts involving the BMP signalling pathway. *J Nutr Biochem.* (2010) 21(5):424-31
- Vafeiadou K, Vauzour D, Lee HY, Rodriguez-Mateos A, Williams RJ, Spencer JP. The citrus flavanone naringenin inhibits inflammatory signalling in glial cells and protects against neuroinflammatory injury. *Arch Biochem Biophys.* (2009), 484:100-109.
- Varoni, E.M., Lodi, G., Sardella, A., Carrassi, A., & Iriti, M. (2012) Plant polyphenols and oral health: old phytochemicals for new fields. *Curr Med Chem.* 19:1706-1720.
- Veeriah S, Miene C, Habermann N, Hofmann T, Klenow S, Sauer J, Böhmer F, Wölfl S, Pool-Zobel BL. Apple polyphenols modulate expression of selected genes related to toxicological defence and stress response in human colon adenoma cells. *Int J Cancer.* (2008)122:2647-2655.

- Venn BJ, Green TJ Glycemic index and glycemic load: measurement issues and their effect on diet-disease relationships.. *Eur J Clin Nutr.* (2007) 61 Suppl 1:S122-131.
- Vrolix R, Mensink RP. Variability of the glycemic response to single food products in healthy subjects. *Contemp Clin Trials.* (2010) 31(1): 5-11.
- Wang J, Ho L, Zhao W, Ono K, Rosensweig C, Chen L, Humala N, Teplow DB, Pasinetti GM. Grape-derived polyphenolics prevent Abeta oligomerization and attenuate cognitive deterioration in a mouse model of Alzheimer's disease. *J Neurosci.* (2008),28:6388-8892.
- Wärnberg J, Gomez-Martinez S, Romeo J, Díaz LE, Marcos A. Nutrition, inflammation, and cognitive function. *Ann N Y Acad Sci.* (2009), 1153:164-175.
- WHO. Fruit and vegetables for health: Report of a Joint FAO/WHO Workshop, (2004), Kobe, Japan.
- WHO. Call to Action to Promote Dental Health by Using Fluoride, 2006. http://www.who.int/oral_health/events/oral%20healthc.pdf
- Willershausen B, Callaway A, Azrak B, Duschner H. Influence of apple juice on human enamel surfaces of the first and second dentition - an in vitro study. *Eur J Med Res.* (2008), 13:349-354.
- Williams RJ, Spencer JP, Rice-Evans C. Flavonoids: antioxidants or signaling molecules? *Free Radic Biol Med.* (2004), 36:838-49.
- Williamson G, Holst B. Dietary reference intake (DRI) value for dietary polyphenols:are we heading in the right direction? *Br J Nutr.* (2008),99 Suppl 3:S55-58.
- Willis LM, Shukitt-Hale B, Joseph JA. Recent advances in berry supplementation and age-related cognitive decline. *Curr Opin Clin Nutr Metab Care.* (2009), 12:91-94.
- Wilson T, Meyers SL, Singh AP, Limburg PJ, Vorsa N. Favorable glycemic response of type 2 diabetics to low-calorie cranberry juice. *J Food Sci.* (2008),73:H241-245.
- Wong RW, Rabie AB. Effect of naringin on bone cells. *J Orthop Res.* (2006),24:2045-2050.
- Wu CH, Wu CF, Huang HW, Jao YC, Yen GC. Naturally occurring flavonoids attenuate high glucose-induced expression of proinflammatory cytokines in human monocytic THP-1 cells. *Mol Nutr Food Res.* (2009), 53:984-95.
- Wu F, Schuster DP, Tysl K, Wilson JX. Ascorbate inhibits NADPH oxidase subunit p47phox expression in microvascular endothelial cells. *Free Radic Biol Med.* (2007), 42:124-131.
- Wu H, Dai Q, Shrubsole MJ, Ness RM, Schlundt D, Smalley WE, Chen H, Li M, Shyr Y, Zheng W. Fruit and vegetable intakes are associated with lower risk of colorectal adenomas. *J Nutr.* (2009), 139:340-344.

Yao F, Shu G, Yang Y, Shi B. Grapefruit and diet of the type 2 Diabetes: 53 (2): A591 (2004).

Yoshida M, McKeown NM, Rogers G, Meigs JB, Saltzman E, D'Agostino R, Jacques PF. Surrogate markers of insulin resistance are associated with consumption of sugar-sweetened drinks and fruit juice in middle and older-aged adults. *J Nutr.* (2007), 137(9):2121-2127.

Youdim KA, Dobbie MS, Kuhnle G, Proteggente AR, Abbott NJ, Rice-Evans C. Interaction between flavonoids and the blood-brain barrier: in vitro studies. *J Neurochem.* (2003), 85:180-192.