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Agarwal ,S. and Rao ,A.V. (1998) Food and nutrient intakes of individuals in 1 day in the United States. Preliminary Report #2. 1980. Tomato lycopene and low density lipoprotein oxidation: A human dietary intervention study. *Lipids* 33, 981-984.

Aoki H, Kieu NT, Kuze N, Tomisaka K, Van Chuyen N. Carotenoid pigments in GAC fruit (*Momordica cochinchinensis* SPRENG). *Biosci.Biotechnol.Biochem* 2002;66:2479-82.

Bernstein, P.S. et al, Resonance Raman measurement of macular carotenoids in normal subjects and in age-related macular degeneration patients. *Ophthalmology*. 2002 Oct;109(10):1780-7.

Bone, R.A., Landrum, J.T., Dixon, Z., Chen, Y. and Llerena,C.M. (2000) Lutein and zeaxanthin in the eyes, serum and diet of human subjects. *Experimental Eye Research* 71, 239-245.

Bone, R.A., Landrum, J.T., Mayne, S.T., Gomez, C.M., Tibor, S.E. and Twaroska, E.E. (2001) Macular pigment in donor eyes with and without AMD: a case-control study. *Investigative Ophthalmology and Visual Science* 42, 235-240.

Brown, L., Rimm, E.B., Seddon, J.M., Giovanucci, E.L., Chasan-Taber, L., Spiegelman, D., Willett, W.C. and Hankinson, S.E. (1999) A prospective study of carotenoid intake and risk of cataract extraction in US men. *American Journal of Clinical Nutrition* 70, 517-524.

Cardinault, N., Gorrard, J.M., Tyssandier, V., Grolier, P., Rock, E. and Borel, P. (2003) Short-term supplementation with lutein affects biomarkers of lutein status similarly in young and elderly subjects. *Experimental Gerontology* 38, 573-582.

Chasan-Taber, L., Willett, W.C., Seddon, J.M., Stampfer, M.J., Rosner, B., Colditz, G.A., Speizer, F.E. and Hankinson, S.E. (1999) A prospective study of carotenoid and vitamin A intakes and risk of cataract extraction in US women [see comments]. *American Journal of Clinical Nutrition* 70, 509-516.

Chitchumroonchokchai C., Failla M.L., Hydrolysis of Zeaxanthin Esters by Carboxyl Ester Lipase during Digestion Facilitates Micellarization and Uptake of the Xanthophyll by Caco-2 Human Intestinal Cells. *J Nutr.* 2006 Mar;136(3):588-94.

Dahl, E., Winterhager, E., Traub, O. and Willeck, K (1995) Expression of gap junction genes, connexin40 and connexin43, during fetal mouse development. *Anatomy and Embryology* 191, 267-278.

de Pee S, West CE, Permaesih D, Martuti S, Muhilal, Hautvast JGAF. Orange fruit is more effective than are dark-green, leafy vegetables in increasing serum concentration of

retinol and β-carotene in schoolchildren in Indonesia. Am J Clin Nutr 1998; 68:1058-67.

Deming, D.M., Boileau, T.W-M, Heintz, K.H., Atkinson, C.A. and Erdman, J.W., Jr. (2002) Carotenoids: Linking chemistry, absorption, and metabolism to potential roles in human health and disease. In: Cadenas, E. and Packer, L. (Eds), Handbook of Antioxidants (New York: New York: Marcel-Dekker,), pp. 189-221.

Do TL. Nhung Cay Thuoc va Vi Thuoc Viet Nam [Medicinal Plants and Drugs of Vietnam]. Hanoi: Nha Xuat Ban Khoa Hoc va Ky Thuat, 1991.

Dwyer, J.H., Navab, M., Dwyer, K.M., Hassan, K., Sun, P., Shircore, A., Hama-Lavy, S., Hough, G., Wang, X., Drake, T., Merz, C.N. and Fogelman, A.M. (2001) Oxygenated carotenoid lutein and progression of early atherosclerosis: the Los Angeles atherosclerosis study. Circulation 103, 2922-2927.

EL MOFTY MM, Sakr SA. Induction of neoplasms in the Egyptian toad *Bufo regularis* by gibberellin A3. Oncology 1988;45:61-4.

Elless, M.P., Blaylock, M.J., Huang, J.W. and Gussman, C.D. (2000) Plants as a natural source of concentrated mineral nutritional supplements. Food Chemistry 71, 181-188.

Fuhrman, B., Elis, A. and Aviram, M. (1997) Hypocholesterolemic effect of lycopene and beta-carotene is related to suppression of cholesterol synthesis and augmentation of LDL receptor activity in macrophages. Biochemical and Biophysical Research Communications 233, 658-662.

Gan L, Hua Zhang S, Liang Yang X, Bi Xu H. Immunomodulation and antitumor activity by a polysaccharide-protein complex from *Lycium barbarum*. Int Immunopharmacol. 2004; 4(4):563-9.

Geetha S, Sai Ram M, Mongia SS, Singh V, Ilavazhagen G, Sawhney RC. Evaluation of antioxidant activity of leaf extract of Seabuckthorn (*Hippophae rhamnoides* L.) on chromium (VI) induced oxidative stress in albino rats. J Ethnopharmacol 2003; 87(2-3):247-51.

Geetha S, Sai RM, Singh V, Ilavazhagan G, Sawhney RC. Anti-oxidant and immunomodulatory properties of seabuckthorn (*Hippophae rhamnoides*)---an in vitro study. J Ethnopharmacol. 2002;79:373-8.

Gerster, Int J Vitam Nutr Res 63:93, 1993

Giles, G., Ireland, P. (1997) Diet, nutrition and prostate cancer. International Journal of Cancer 72, 13-17.

Giovanucci, E., Ascherio, A., Rimme, E.B., Stampfer, M.J., Colditz, G.A. and Willett, W. (1995) Intake of carotenoids and retinol in relation to risk of prostate cancer. Journal of

the National Cancer Institute 87, 1767-1776.

Giovanucci, E., Rimm, E.B., Stampfer, M.J. and Willett, W.C. (2002) A prospective study of tomato products, lycopene and prostate cancer risk. Journal of the National Cancer Institute 94, 391-398.

Goel HC, Gupta S, Garg AP, Bala M. Protection of mitochondrial system by Hippophae rhamnoides L. Against radiation-induced oxidative damage in mice. J Pharm Pharmacol 2005; 57(1):135-43.

Guichard F, Bui DS. La matiere colorante du fruit du Momordica Cochinchinensis Spr. Annales de l'ecole Superieure de Medecine et de Pharmacie de l'Indochine 1941; V:141-42.

Hammond, B.R., Jr., Johnson, E.J., Russell, R.M., Krinsky, N.I., Yeum, K.J., Edwards, R.B. and Snodderly, D.M. (1997) Dietary modification of human macular pigment density. Investigative Ophthalmology and Visual

Huang Y, Tan A, Shen Y, Lu J. [Scavenging effect of total flavonoids of lycium barbarum L on active oxygen radicals and inhibitory effects on heat output from L1210 cells]. Wei Sheng Yan.Jiu. 1998;27:109-11, 115.

Ianev E, Radev S, Balutsov M, Klouchek E, Popov A. [The effect of an extract of sea buckthorn (Hippophae rhamnoides L.) on the healing of experimental skin wounds in rats]. Khirurgiia (Sofiiia). 1995; 48 (3):30-3.

Ishida BK et al. Fatty acid and carotenoid composition of Gac (Momordica cochinchinensis Spreng) fruit; J Agric Food Chem 2004, 52, 274-279.

Karanjawala ZE, Lieber MR. DNA damage and aging. Mech.Ageing Dev. 2004; 125:405-16.

Kayano S, Kikuzaki H, Fukutsuka N, Mitani T, Nakatani N. Antioxidant activity of prune (*Prunus domestica* L.) constituents and a new synergist. J Agric Food Chem 2002; 50:3708-12.

Kikuzaki H, Kawai Y, Nakatani N. 1,1-Diphenyl-2-picrylhydrazyl radical-scavenging active compounds from greater cardamom (*Amomum subulatum* Roxb.). J Nutr Sci Vitaminol.(Tokyo) 2001;47:167-71.

Kim YK, Yoon SK, Ryu SY. Cytotoxic triterpenes from stem bark of *Physocarpus intermedium*. Planta Med 2000;66:485-6.

Kohlmeier L, Hastings SB. Epidemiologic evidence of a role of carotenoids in cardiovascular disease prevention. Am.J.Clin.Nutr. 1995;62:1370S-6S.

Kohlmeier, L., Kark, J.D., Gomez-Gracia, E., Martin, B.C., Steck, S.E., Kardinaal, A.F., Ringstad, J., Masaev, V., Riemersma, R., Martin-Moreno, J.M., Huttunen, J.K. and Kok, F.J. (1997) Lycopene and myocardial infarction risk in the EURAMIC Study. American Journal of Epidemiology 146, 618-626.

Kouris-Blazos, A. (2002) Morbidity mortality paradox of 1st generation Greek Australians. Asia Pacific Journal of Clinical Nutrition 11 Suppl 3, S569-S575.

Kritchevsky SB, Tell GS, Shimakawa T et al. Provitamin A carotenoid intake and carotid artery plaques: the Atherosclerosis Risk in Communities Study. Am.J.Clin.Nutr. 1998;68:726-33.

Kritchevsky SB. Beta-carotene, carotenoids and the prevention of coronary heart disease. J.Nutr. 1999;129:5-8.

Krutovskikh, V.A., Mesnil, M., Mazzoleni, G. and Yamasaki, H. (1995) Inhibition of rat liver gap junction intercellular communication by tumor-promoting agents in vivo. Association with aberrant localization of connexin proteins. Laboratory Investigations 72, 571-577.

Kucuk, O., Sarkar, F.H., Sark, W., Djuric, Z., Pollak, M.N., Khachik, F., Li, Y.W., Banerjee, M., Grignon, D., Bertram, J.S., Crissman, J.D., Pontes, E.J. and Wood, D.P., Jr. (2001) Phase II randomized clinical trial of lycopene supplementation before radical prostatectomy. Cancer Epidemiology Biomarkers & Prevention 10, 861-868.

Landrum, J.T., Bone, R.A., Joa, H., Kilburn, M.D., Moore, L.L. and Sprague, K.E.. (1997) A one year study of the macular pigment: The effect of 140 days of a lutein supplement. Experimental Eye Research 65, 57-62.

Landrum, J.T., Bone, R.A., Kilburn, M.D., Joa, H. and Gomez, C (1996) Dietary lutein supplementation increases macular pigment (MP). Faseb Journal 10:A242 (Abstract).

Lee IR, Yang MY. Phenolic compounds from Duchesnea chrysanthia and their cytotoxic activities in human cancer cell. Arch Pharm Res 1994;17:476-9.

Li P, Wang HZ, Wang XQ, Wu YN. The blocking effect of phenolic acid on N-nitrosomorpholine formation in vitro. Biomed.Environ Sci 1994;7:68-78.

Lin WL, Hsieh YJ, Chou FP, Wang CJ, Cheng MT, Tseng TH. Hibiscus protocatechuic acid inhibits lipopolysaccharide-induced rat hepatic damage. Arch Toxicol 2003;77:42-7.

Lodovici M, Guglielmi F, Meoni M, Dolara P. Effect of natural phenolic acids on DNA oxidation in vitro. Food Chem Toxicol 2001;39:1205-10.

Lu, Q.Y., Hung, J.C., Heber, D., Liang, V., Go, W., Reuter, V.E., Cordon-Cardo, D., Scher, H.I., Marshall, J.R. and Zhang, Z.F. (2001) Inverse associations between plasma

lycopene and other carotenoids and prostate cancer. *Cancer Epidemiology Biomarkers & Prevention* 10, 749-756.

Luo Q, Cai Y, Yan J, Sun M, Corke H. Hypoglycemic and hypolipidemic effects and antioxidant activity of fruit extracts from *Lycium barbarum*. *Life Science* 2004; 76(2):137-49.

Ma YX, Zhu Y, Wang CF et al. The aging retarding effect of 'Long-Life CiLi'. *Mech.Ageing Dev.* 1997;96:171-80.

Morris DL, Kritchevsky SB, Davis CE. Serum carotenoids and coronary heart disease: The Lipid Research Clinics Coronary Primary Prevention Trial and Follow- up Study. *JAMA* 1994;272:1439-41.

Ni H, Qing D, Kaisa S, Lu J. The study on the effect of LBP on cleaning hydrogen free radical by EPR technique. *Zhong Yao Cai*

NTP Toxicology and Carcinogenesis Studies of Furfural (CAS No. 98-01-1) in F344/N Rats and B6C3F1 Mice (Gavage Studies). *Natl.Toxicol Program.Tech Rep Ser.* 1990;382:1-201.

Olmedilla, B., Granado, F., Southon, S., Wright, A.J., Blanco, I., Gil-Martinez, E., Berg, H., Corridan, B., Roussel, A.M., Chopram, M. and Thurnham, D.I. (2001) Serum concentrations of carotenoids and vitamins A, E, and C in control subjects from five European countries. *British Journal of Nutrition* 85, 227-238.

Peng X, Tian G. Structural characterization of the glycan part of glycoconjugate LbGp2 from *Lycium barbarum* L. *Carbohydr.Res* 2001;331:95-9.

Porrini, M. and Riso P. (2000) Lymphocyte lycopene concentration and DNA protection from oxidative damage is increased in women after a short period of tomato consumption. *Journal of Nutrition* 130, 189-192.

Rao AV, Agarwal S. Role of lycopene as antioxidant carotenoid in the prevention of chronic diseases: A review. *Nutr Res* 1999;19:305-23.

Richer, S. (1999) ARMD--pilot (case series) environmental intervention data [In Process Citation]. *Journal of the American Optometric Association* 70, 24-36.

Riso, P., Pinder, A., Santangelo, A. and Porrini, M. (1999) Does tomato consumption effectively increase the resistance of lymphocyte DNA to oxidative damage? *American Journal of Clinical Nutrition* 69, 712-718.

Seddon, J.M., Ajani, U.A., Sperduto, R.D., Hiller, R., Blair, N., Burton, T.C., Farber, M.D., Gragoudas, E.S., Haller, J., Miller, D.T. Yannuzzi, L.A. and Willett, W. (1994) Dietary carotenoids, vitamins A, C, and E, and advanced age- related macular

degeneration. Eye Disease Case-Control Study Group. Journal of the American Medical Association 272, 1413-1420.

Sesso, H.D., Buring, J.E., Norkus, E.P., and Gaziano, J.M. (2004) Plasma lycopene, other carotenoids and retinol and the risk of cardiovascular disease in women. American Journal of Clinical Nutrition 79, 47-53.

Sies, H. and Stahl, W. (1997) Carotenoids and intercellular communication via gap junctions. International Journal for Vitamin and Nutrition Research 67, 364-367.

Smidt C.R. and Shieh D. Non-invasive biophotonic assessment of skin carotenoids as a biomarker of human antioxidant status. FASEB J 2003; submitted.

Sommerburg, O., Kaunen, J.E.E., Bird, A.C., Van Kuijk, J.G.M., Fruits and vegetables that are sources for lutein and zeaxanthin: the macular pigment in human eyes. Br J Ophthalmol 1998;82:907-910.

Sroka Z, Cisowski W. Hydrogen peroxide scavenging, antioxidant and anti-radical activity of some phenolic acids. Food Chem Toxicol 2003;41:753-8.

Stahl, W., Nicolai, S., Briviba, K., Hanusch, M., Broszeit, G., Peters, M., Martin, H.D. and Sies, H. (1997) Biological activities of natural and synthetic carotenoids: induction of gap junctional communication and singlet oxygen quenching. Carcinogenesis 18, 89-92.

Thomas SC Li and Thomas HJ. Sea Buckthorn (*Hippophae rhamnoides* L.): Production and Utilization. HerbalGram 2004;62:74.

Tien PG, Kayama F, Konishi F, Tamemoto H, Kasono K, Hung NT, Kuroki M, Ishikawa SE, Van CN, Kawakami M, Inhibition of tumor growth and angiogenesis by water extract of Gac fruit (*Momordica cochinchinensis* Spreng). Int J Oncol. 2005 Apr;26(4):881-9.

Toyokuni S, Itani T, Morimitsu Y et al. Protective effect of colored rice over white rice on Fenton reaction-based renal lipid peroxidation in rats. Free Radic.Res 2002;36:583-92.

Trosko, J.E. (2003) The role of stem cells and gap junctional intercellular communication in carcinogenesis. Journal of Biochemistry and Molecular Biology. 36, 43-48.

Tseng TH, Hsu JD, Lo MH et al. Inhibitory effect of Hibiscus protocatechuic acid on tumor promotion in mouse skin. Cancer Lett 1998;126:199-207.

USDA National Nutrient Database for Standard Reference. Vitamin C, total ascorbic acid (mg) content of selected foods per common measure. Release 18.

USDA-NCC Carotenoid Database for U. S. Foods. 1998

Vien Dinh Duong, ed. Thanh Phan Dinh Duong Thuc An Viet Nam [Food Products in

Vietnam Composition and Nutritive Value]. Hanoi: Nha Xuat Ban Y Hoc, 1995.

Vogt, T.M., Mayne, S.T., Graubard, B.I., Swanson, C.A., Sowell, A.L., Schoenberg, J.B., Swanson, G.M., Greenberg, R.S., Hoover, R.N., Hayes, R.B. and Zeigler, R.G. (2002) Serum lycopene, other serum carotenoids, and risk of prostate cancer in US Blacks and Whites. American Journal of Epidemiology 155, 1023-1032.

Vo-Van-Chi. Tu Dien Cay Thuoc Viet Nam [A Dictionary of Medicinal Plants of Vietnam]. Ho-Chi-Minh City, Vietnam: Nha Xuat Ban Y Hoc, 1997.

Vu Dinh Trac. 100 Cay Thuoc, Van Linh Ba Chung [100 medicinal plants, highly effective for many diseases]. Hanoi: Y Hoc Viet-Nam Hoi Huu Xuat Ban, 1986:175.

Vuong LT, Dueker SR, Murphy SP. Plasma beta-carotene and retinol concentrations of children increase after a 30-d supplementation with the fruit *Momordica cochinchinensis* (gac). Am J Clin Nutr 2002;75:872-9.

Vuong LT, King JC. A method of preserving and testing the acceptability of gac fruit oil, a good source of beta-carotene and essential fatty acids. Food Nutr Bull 2003;24:224-30.

Vuong, LT. Under-utilized beta-carotene rich crops in Vietnam.
<http://www.flic.net/levuong/betafruit/betafruit.html> (also published in Vietnam Journal)

Vuong, LT. Under-utilized beta-carotene rich crops in Vietnam.
<http://www.flic.net/levuong/betafruit/betafruit.html> (also published in Vietnam Journal)

Wang JH, Wang HZ, Zhang M, Zhang SH. Anti-aging function of polysaccharides from *Fructus lycii*. Acta Nutrimenta Sinica 2002;24(2):189-191.

Weller P., Breithaupt D.E., Identification and Quantification of Zeaxanthin Esters in Plants Using Liquid Chromatography-Mass Spectrometry. J. Agric. Food Chem. 2003, 51, 7044-7049.

West CE, Poortvliet EJ. The carotenoid content of foods with special reference to developing countries. Washington DC: US Agency for International Development, 1993.

Xu Q, Wen X, Deng X, A Simple Protocol for Isolating Genomic DNA. From Chestnut Rose (*Rosa roxburghii* Tratt) for RFLP and PCR Analyses Plant Molecular Biology Reporter 22: 301a–301g, September 2004.

Yamasaki, H. (1995) Non-genotoxic mechanisms of carcinogenesis: studies of cell transformation and gap junctional intercellular communication. Toxicology Letters. 77, 55-61.

Yamasaki, H., Mesnil, M., Omori, Y., Mironov, N. and Krutovskikh, V. (1995)

Intercellular communication and carcinogenesis. Mutation Research 333, 181-188.

Yanagimoto K, Ochi H, Lee KG, Shibamoto T. Antioxidative activities of volatile extracts from green tea, oolong tea, and black tea. J Agric Food Chem 2003;51:7396-401.

Yang B, Karlsson RM, Oksman PH, Kallio HP. Phytosterols in sea buckthorn (*Hippophae rhamnoides* L.) berries: identification and effects of different origins and harvesting times. J Agric Food Chem. 2001; 49(11):5620-9.

Yang BR, Kalimo KO, Mattila LM et al. Effects of dietary supplementation with sea buckthorn (*Hippophae rhamnoides*) seed and pulp oils on atopic dermatitis. J.Nutr.Biochem. 1999;10:622-30.

Zhang C, Liu X, Qiang H et al. Inhibitory effects of *rosa roxburghii* tratt juice on in vitro oxidative modification of low density lipoprotein and on the macrophage growth and cellular cholesteryl ester accumulation induced by oxidized low density lipoprotein. Clin Chim Acta 2001;313:37-43.

Zhang, L.X., Cooney, R.V. and Bertram, J.S. (1991) Carotenoids enhance gap junctional communication and inhibit lipid peroxidation in C3H/10T1/2 cells: relationship to their cancer chemopreventive action. Carcinogenesis 12, 2109-2114.