21-III-2011

CARIG Literature References

Ahrazem, O., Trapero, A., Gomez, M. D., Rubio-Moraga, A., & Gomez-Gomez, L. (2010) Genomic analysis and gene structure of the plant carotenoid dioxygenase 4 family: a deeper study in *Crocus sativus* and its allies. Genomics. 96: 239-250.

Ajila, C. M., Rao, L. J., & Rao, U. J. (2010) Characterization of bioactive compounds from raw and ripe *Mangifera indica* L. peel extracts. Food Chem Toxicol. 48: 3406-3411.

Alkhedir, H., Karlovsky, P., & Vidal, S. (2010) Effect of light intensity on colour morph formation and performance of the grain aphid *Sitobion avenae* F. (*Homoptera: Aphididae*). J.Insect Physiol. 56: 1999-2005.

Ananda, N. & Vadlani, P. V. (2010) Production and optimization of carotenoid-enriched dried distiller's grains with solubles by *Phaffia rhodozyma* and *Sporobolomyces roseus* fermentation of whole stillage. J.Ind.Microbiol.Biotechnol. 37: 1183-1192.

Arango, J., Wust, F., Beyer, P., & Welsch, R. (2010) Characterization of phytoene synthases from cassava and their involvement in abiotic stress-mediated responses. Planta. 232: 1251-1262.

Balashov, S. P., Imasheva, E. S., Choi, A. R., Jung, K. H., Liaaen-Jensen, S., & Lanyi, J. K. (2010) Reconstitution of *gloeobacter* rhodopsin with echinenone: role of the 4-keto group. Biochemistry. 49: 9792-9799.

Bando, N., Muraki, N., Murota, K., Terao, J., & Yamanishi, R. (2010) Ingested quercetin but not rutin increases accumulation of hepatic beta-carotene in BALB/c mice. Mol.Nutr.Food Res. 54 Suppl 2:S261-7.: S261-S267.

Barrell, P. J., Wakelin, A. M., Gatehouse, M. L., Lister, C. E., & Conner, A. J. (2010) Inheritance and epistasis of loci influencing carotenoid content in petal and pollen color variants of california Poppy (*Eschscholzia californica* Cham.). J.Hered. 101: 750-756.

Bartlett, H., Howells, O., & Eperjesi, F. (2010) The role of macular pigment assessment in clinical practice: a review. Clin.Exp.Optom. 93: 300-308.

Bathaie, S. Z. & Mousavi, S. Z. (2010) New applications and mechanisms of action of saffron and its important ingredients. Crit Rev.Food Sci.Nutr. 50: 761-786.

Bayoumi, S. A., Rowan, M. G., Beeching, J. R., & Blagbrough, I. S. (2010) Constituents and secondary metabolite natural products in fresh and deteriorated cassava roots. Phytochemistry. 71: 598-604.

Beck, K., Conlon, C. A., Kruger, R., Coad, J., & Stonehouse, W. (2011) Gold kiwifruit consumed with an iron-fortified breakfast cereal meal improves iron status in women with low iron stores: a 16-week randomised controlled trial. Br.J.Nutr. 105: 101-109.

Beilby, J., Ambrosini, G. L., Rossi, E., de Klerk, N. H., & Musk, A. W. (2010) Serum levels of folate, lycopene, beta-carotene, retinol and vitamin E and prostate cancer risk. Eur.J.Clin.Nutr. 64: 1235-1238.

Belcaro, G., Cesarone, M. R., Cornelli, U., & Dugall, M. (2010) MF Afragil(R) in the treatment of 34 menopause symptoms: a pilot study. Panminerva Med. 52: 49-54.

Bergman, M., Djaldetti, M., Salman, H., & Bessler, H. (2010) On the combined effect of statins and lycopene on cytokine production by human peripheral blood cells. Heart Vessels. 25: 426-431.

Bertrand, M. (2010) Carotenoid biosynthesis in diatoms. Photosynth.Res. 106: 89-102.

Biard, C., Saulnier, N., Gaillard, M., & Moreau, J. (2010) Carotenoid-based bill colour is an integrative signal of multiple parasite infection in blackbird. Naturwissenschaften. 97: 987-995.

Black, H. S. (2010) Interaction of ascorbic acid and tocopherol on beta-carotene modulated carcinogenesis. Hemoglobin. 34: 284-290.

Boesing, F., Moreira, E. A., Wilhelm-Filho, D., Vigil, S. V., Parizottto, E. B., Inacio, D. B., Portari, G. V., Trindade, E. B., Jordao-Junior, A. A., & Frode, T. S. (2010) Roux-en-Y bypass gastroplasty: markers of oxidative stress 6 months after surgery. Obes.Surg. 20: 1236-1244.

Bolin, A. P., Macedo, R. C., Marin, D. P., Barros, M. P., & Otton, R. (2010) Astaxanthin prevents *in vitro* auto-oxidative injury in human lymphocytes. Cell Biol.Toxicol. 26: 457-467.

Bonetti, C., Alexandre, M. T., van Stokkum, I. H., Hiller, R. G., Groot, M. L., van Grondelle, R., & Kennis, J. T. (2010) Identification of excited-state energy transfer and relaxation pathways in the peridinin-chlorophyll complex: an ultrafast mid-infrared study. Phys.Chem Chem Phys. 12: 9256-9266.

Bonvissuto, G., Minutoli, L., Morgia, G., Bitto, A., Polito, F., Irrera, N., Marini, H., Squadrito, F., & Altavilla, D. (2011) Effect of *Serenoa repens*, lycopene, and selenium on proinflammatory phenotype activation: an *in vitro* and *in vivo* comparison study. Urology. 77: 248-16.

Bouilly-Gauthier, D., Jeannes, C., Maubert, Y., Duteil, L., Queille-Roussel, C., Piccardi, N., Montastier, C., Manissier, P., Pierard, G., & Ortonne, J. P. (2010) Clinical evidence of benefits of a dietary supplement containing probiotic and carotenoids on ultraviolet-induced skin damage. Br.J.Dermatol. 163: 536-543.

Bowden, S. A., Wilson, R., Cooper, J. M., & Parnell, J. (2010) The use of surface-enhanced Raman scattering for detecting molecular evidence of life in rocks, sediments, and sedimentary deposits. Astrobiology. 10: 629-641.

Burri, B. J., Chang, J. S., & Neidlinger, T. R. (2011) beta-Cryptoxanthin- and alpha-carotene-rich foods have greater apparent bioavailability than beta-carotene-rich foods in Western diets. Br.J.Nutr. 105: 212-219.

Campbell, R., Ducreux, L. J., Morris, W. L., Morris, J. A., Suttle, J. C., Ramsay, G., Bryan, G. J., Hedley, P. E., & Taylor, M. A. (2010) The metabolic and developmental roles of carotenoid cleavage dioxygenase4 from potato. Plant Physiol. 154: 656-664.

Casal, S., Malheiro, R., Sendas, A., Oliveira, B. P., & Pereira, J. A. (2010) Olive oil stability under deep-frying conditions. Food Chem Toxicol. 48: 2972-2979.

Cemek, M., Yilmaz, E., & Buyukokuroglu, M. E. (2010) Protective effect of *Matricaria chamomilla* on ethanol-induced acute gastric mucosal injury in rats. Pharm.Biol. 48: 757-763.

Ceribasi, A. O., Turk, G., Sonmez, M., Sakin, F., & Atessahin, A. (2010) Toxic effect of cyclophosphamide on sperm morphology, testicular histology and blood oxidant-antioxidant balance, and protective roles of lycopene and ellagic acid. Basic Clin.Pharmacol.Toxicol. 107: 730-736.

Chabera, P., Durchan, M., Shih, P. M., Kerfeld, C. A., & Polivka, T. (2011) Excited-state properties of the 16kDa red carotenoid protein from *Arthrospira maxima*. Biochim.Biophys.Acta. 1807: 30-35.

Chae, H. S., Kim, K. H., Kim, S. C., & Lee, P. C. (2010) Strain-dependent carotenoid productions in metabolically engineered *Escherichia coli*. Appl.Biochem.Biotechnol. 162: 2333-2344.

Chai, C., Fang, J., Liu, Y., Tong, H., Gong, Y., Wang, Y., Liu, M., Wang, Y., Qian, Q., Cheng, Z., & Chu, C. (2011) ZEBRA2, encoding a carotenoid isomerase, is involved in photoprotection in rice. Plant Mol.Biol. 75: 211-221.

Chiou, C. Y., Pan, H. A., Chuang, Y. N., & Yeh, K. W. (2010) Differential expression of carotenoid-related genes determines diversified carotenoid coloration in floral tissues of *Oncidium* cultivars. Planta. 232: 937-948.

Cho, S., Lee, D. H., Won, C. H., Kim, S. M., Lee, S., Lee, M. J., & Chung, J. H. (2010) Differential effects of low-dose and high-dose beta-carotene supplementation on the signs of photoaging and type I procollagen gene expression in human skin *in vivo*. Dermatology. 221: 160-171.

Choi, H. D., Kang, H. E., Yang, S. H., Lee, M. G., & Shin, W. G. (2011) Pharmacokinetics and first-pass metabolism of astaxanthin in rats. Br.J.Nutr. 105: 220-227.

Cort, A., Ozturk, N., Akpinar, D., Unal, M., Yucel, G., Ciftcioglu, A., Yargicoglu, P., & Aslan, M. (2010) Suppressive effect of astaxanthin on retinal injury induced by elevated intraocular pressure. Regul.Toxicol.Pharmacol. 58: 121-130.

Crupi, P., Coletta, A., & Antonacci, D. (2010) Analysis of carotenoids in grapes to predict norisoprenoid varietal aroma of wines from Apulia. J.Agric.Food Chem. 58: 9647-9656.

Crupi, P., Milella, R. A., & Antonacci, D. (2010) Simultaneous HPLC-DAD-MS (ESI+) determination of structural and geometrical isomers of carotenoids in mature grapes. J.Mass Spectrom. 45: 971-980.

Dall'Osto, L., Cazzaniga, S., Havaux, M., & Bassi, R. (2010) Enhanced photoprotection by protein-bound vs free xanthophyll pools: a comparative analysis of chlorophyll b and xanthophyll biosynthesis mutants. Mol.Plant. 3: 576-593.

Daly, T., Jiwan, M. A., O'Brien, N. M., & Aherne, S. A. (2010) Carotenoid content of commonly consumed herbs and assessment of their bioaccessibility using an *in vitro* digestion model. Plant Foods Hum.Nutr. 65: 164-169.

Darwish, W. S., Ikenaka, Y., Ohno, M., Eldaly, E. A., & Ishizuka, M. (2010) Carotenoids as regulators for inter-species difference in cytochrome P450 1A expression and activity in ungulates and rats. Food Chem Toxicol. 48: 3201-3208.

Diretto, G., Al Babili, S., Tavazza, R., Scossa, F., Papacchioli, V., Migliore, M., Beyer, P., & Giuliano, G. (2010) Transcriptional-metabolic networks in beta-carotene-enriched potato tubers: the long and winding road to the Golden phenotype. Plant Physiol. 154: 899-912.

Du, H., Wang, N., Cui, F., Li, X., Xiao, J., & Xiong, L. (2010) Characterization of the beta-carotene hydroxylase gene DSM2 conferring drought and oxidative stress resistance by increasing xanthophylls and abscisic acid synthesis in rice. Plant Physiol. 154: 1304-1318.

Duffy, C. D., Johnson, M. P., Macernis, M., Valkunas, L., Barford, W., & Ruban, A. V. (2010) A theoretical investigation of the photophysical consequences of major plant light-harvesting complex aggregation within the photosynthetic membrane. J.Phys.Chem B. 114: 15244-15253.

Durchan, M., Herbstova, M., Fuciman, M., Gardian, Z., Vacha, F., & Polivka, T. (2010) Carotenoids in energy transfer and quenching processes in Pcb and Pcb-PS I complexes from *Prochlorothrix hollandica*. J.Phys.Chem B. 114: 9275-9282.

Egea, I., Sanchez-Bel, P., Romojaro, F., & Pretel, M. T. (2010) Six edible wild fruits as potential antioxidant additives or nutritional supplements. Plant Foods Hum.Nutr. 65: 121-129.

Engelmann, N. J., Campbell, J. K., Rogers, R. B., Rupassara, S. I., Garlick, P. J., Lila, M. A., & Erdman, J. W., Jr. (2010) Screening and selection of high carotenoid producing *in vitro* tomato cell culture lines for [13C]-carotenoid production. J.Agric.Food Chem. 58: 9979-9987.

Enriquez, M. M., Fuciman, M., LaFountain, A. M., Wagner, N. L., Birge, R. R., & Frank, H. A. (2010) The intramolecular charge transfer state in carbonyl-containing polyenes and carotenoids. J.Phys.Chem B. 114: 12416-12426.

Fernandez-Lopez, J. A., Almela, L., Obon, J. M., & Castellar, R. (2010) Determination of antioxidant constituents in cactus pear fruits. Plant Foods Hum.Nutr. 65: 253-259.

Ferreres, F., Pereira, D. M., Gil-Izquierdo, A., Valentao, P., Botelho, J., Mouga, T., & Andrade, P. B. (2010) HPLC-PAD-atmospheric pressure chemical ionization-MS metabolite profiling of cytotoxic carotenoids from the echinoderm *Marthasterias glacialis* (spiny sea-star). J.Sep.Sci. 33: 2250-2257.

Ford, N. A., Clinton, S. K., Von Lintig, J., Wyss, A., & Erdman, J. W., Jr. (2010) Loss of carotene-9',10'-monooxygenase expression increases serum and tissue lycopene concentrations in lycopene-fed mice. J.Nutr. 140: 2134-2138.

Frias, J., Penas, E., Ullate, M., & Vidal-Valverde, C. (2010) Influence of drying by convective air dryer or power ultrasound on the vitamin C and beta-carotene content of carrots. J.Agric.Food Chem. 58: 10539-10544.

Gadgoli, C. & Shelke, S. (2010) Crocetin from the tubular calyx of *Nyctanthes* arbor-tristis. Nat.Prod.Res. 24: 1610-1615.

Gonnet, M., Lethuaut, L., & Boury, F. (2010) New trends in encapsulation of liposoluble vitamins. J.Control Release. 146: 276-290.

Goss, R. & Jakob, T. (2010) Regulation and function of xanthophyll cycle-dependent photoprotection in algae. Photosynth.Res. 106: 103-122.

Grune, T., Lietz, G., Palou, A., Ross, A. C., Stahl, W., Tang, G., Thurnham, D., Yin, S. A., & Biesalski, H. K. (2010) Beta-carotene is an important vitamin A source for humans. J.Nutr. 140: 2268S-2285S.

Ha, S. H., Liang, Y. S., Jung, H., Ahn, M. J., Suh, S. C., Kweon, S. J., Kim, D. H., Kim, Y. M., & Kim, J. K. (2010) Application of two bicistronic systems involving 2A and IRES sequences to the biosynthesis of carotenoids in rice endosperm. Plant Biotechnol.J. 8: 928-938.

Horie, S., Okuda, C., Yamashita, T., Watanabe, K., Kuramochi, K., Hosokawa, M., Takeuchi, T., Kakuda, M., Miyashita, K., Sugawara, F., Yoshida, H., & Mizushina, Y. (2010) Purified canola lutein selectively inhibits specific isoforms of mammalian DNA polymerases and reduces inflammatory response. Lipids. 45: 713-721.

Hosoi, S., Tanaka, T., Katsumoto, Y., Maoka, T., Fujiwara, T., Yamashita, M., & Node, M. (2010) Straightforward approach to the discrimination of (4R)- and (4S)-beta-isocryptoxanthin from a conformationally insensitive CD band. Nat.Prod.Commun. 5: 1733-1736.

Hou, Z., Gao, Y., Yuan, F., Liu, Y., Li, C., & Xu, D. (2010) Investigation into the physicochemical stability and rheological properties of beta-carotene emulsion stabilized by soybean soluble polysaccharides and chitosan. J.Agric.Food Chem. 58: 8604-8611.

Ilg, A., Yu, Q., Schaub, P., Beyer, P., & Al Babili, S. (2010) Overexpression of the rice carotenoid cleavage dioxygenase 1 gene in Golden Rice endosperm suggests apocarotenoids as substrates in planta. Planta. 232: 691-699.

Ilioaia, C., Johnson, M. P., Duffy, C. D., Pascal, A. A., van Grondelle, R., Robert, B., & Ruban, A. V. (2011) Origin of absorption changes associated with photoprotective energy dissipation in the absence of zeaxanthin. J.Biol.Chem. 286: 91-98.

Imdad, A., Herzer, K., Mayo-Wilson, E., Yakoob, M. Y., & Bhutta, Z. A. (2010) Vitamin A supplementation for preventing morbidity and mortality in children from 6 months to 5 years of age. Cochrane.Database.Syst.Rev. 12:CD008524.: CD008524.

Irlam, J. H., Visser, M. M., Rollins, N. N., & Siegfried, N. (2010) Micronutrient supplementation in children and adults with HIV infection. Cochrane.Database.Syst.Rev. 12:CD003650.: CD003650.

Janik, E., Maksymiec, W., Mazur, R., Garstka, M., & Gruszecki, W. I. (2010) Structural and functional modifications of the major light-harvesting complex II in cadmium- or copper-treated *Secale cereale*. Plant Cell Physiol. 51: 1330-1340.

Janik, E., Maksymiec, W., & Gruszecki, W. I. (2010) The photoprotective mechanisms in *Secale cereale* leaves under Cu and high light stress condition. J.Photochem.Photobiol.B. 101: 47-52.

Jeon, S. M., Kim, H. J., Woo, M. N., Lee, M. K., Shin, Y. C., Park, Y. B., & Choi, M. S. (2010) Fucoxanthin-rich seaweed extract suppresses body weight gain and improves lipid metabolism in high-fat-fed C57BL/6J mice. Biotechnol.J. 5: 961-969.

Jiang, L., Yang, K. H., Tian, J. H., Guan, Q. L., Yao, N., Cao, N., Mi, D. H., Wu, J., Ma, B., & Yang, S. H. (2010) Efficacy of antioxidant vitamins and selenium supplement in prostate cancer prevention: a meta-analysis of randomized controlled trials. Nutr.Cancer. 62: 719-727.

Jin, Y., Cui, X., Singh, U. P., Chumanevich, A. A., Harmon, B., Cavicchia, P., Hofseth, A. B., Kotakadi, V., Stroud, B., Volate, S. R., Hurley, T. G., Hebert, J. R., & Hofseth, L. J. (2010) Systemic inflammatory load in humans is suppressed by consumption of two formulations of dried, encapsulated juice concentrate. Mol.Nutr.Food Res. 54: 1506-1514.

Kameji, H., Mochizuki, K., Miyoshi, N., & Goda, T. (2010) beta-Carotene accumulation in 3T3-L1 adipocytes inhibits the elevation of reactive oxygen species and the suppression of genes related to insulin sensitivity induced by tumor necrosis factor-alpha. Nutrition. 26: 1151-1156.

Kang, E. J., Campbell, R. E., Bastian, E., & Drake, M. A. (2010) Invited review: Annatto usage and bleaching in dairy foods. J.Dairy Sci. 93: 3891-3901.

Kankofer, M., Albera, E., Feldman, M., Gundling, N., & Hoedemaker, M. (2010) Comparison of antioxidative/oxidative profiles in blood plasma of cows with and without retained fetal placental membranes. Theriogenology. 74: 1385-1395.

Karwowska, M., Stadnik, J., Dolatowski, Z. J., & Grela, E. R. (2010) Effect of protein-xanthophylls (PX) concentrate of alfalfa supplementation on physico-chemical properties of turkey breast and thigh muscles during ageing. Meat.Sci. 86: 486-490.

Kaspar, K. L., Park, J. S., Brown, C. R., Mathison, B. D., Navarre, D. A., & Chew, B. P. (2011) Pigmented potato consumption alters oxidative stress and inflammatory damage in men. J.Nutr. 141: 108-111.

Khan, N. C., Huan, P. V., Nhien, N. V., Tuyen, l. D., de Pee, S., & Semba, R. D. (2010) Relationship of serum carotenoids and retinol with anaemia among pre-school children in the northern mountainous region of Vietnam. Public Health Nutr. 13: 1863-1869.

Khan, S. K., Malinski, T., Mason, R. P., Kubant, R., Jacob, R. F., Fujioka, K., Denstaedt, S. J., King, T. J., Jackson, H. L., Hieber, A. D., Lockwood, S. F., Goodin, T. H., Pashkow, F. J., & Bodary, P. F. (2010) Novel astaxanthin prodrug (CDX-085) attenuates thrombosis in a mouse model. Thromb.Res. 126: 299-305.

Kim, K. N., Heo, S. J., Yoon, W. J., Kang, S. M., Ahn, G., Yi, T. H., & Jeon, Y. J. (2010) Fucoxanthin inhibits the inflammatory response by suppressing the activation of NF-kappaB and MAPKs in lipopolysaccharide-induced RAW 264.7 macrophages. Eur.J.Pharmacol. 649: 369-375.

Kim, K. N., Heo, S. J., Kang, S. M., Ahn, G., & Jeon, Y. J. (2010) Fucoxanthin induces apoptosis in human leukemia HL-60 cells through a ROS-mediated Bcl-xL pathway. Toxicol.In Vitro. 24: 1648-1654.

Kim, M. K., Ahn, S. H., Son, B. H., & Sung, M. K. (2010) Plasma antioxidant concentration, not superoxide dismutase polymorphism, is associated with breast cancer risk in Korean women. Nutr.Res. 30: 705-713.

Kim, Y. S. & Oh, D. K. (2010) Biotransformation of carotenoids to retinal by carotenoid 15,15'-oxygenase. Appl.Microbiol.Biotechnol. 88: 807-816.

Kirby, M. L., Beatty, S., Loane, E., Akkali, M. C., Connolly, E. E., Stack, J., & Nolan, J. M. (2010) A central dip in the macular pigment spatial profile is associated with age and smoking. Invest Ophthalmol.Vis.Sci. 51: 6722-6728.

Krammer, G. & Aurich, J. (2010) Effect of intramuscularly administered beta-carotene on reproductive performance in sows. Berl Munch.Tierarztl.Wochenschr. 123: 496-499.

Kuratsune, H., Umigai, N., Takeno, R., Kajimoto, Y., & Nakano, T. (2010) Effect of crocetin from *Gardenia jasminoides* Ellis on sleep: a pilot study. Phytomedicine. 17: 840-843.

Kurcer, M. A., Kurcer, Z., Koksal, M., Baba, F., Ocak, A. R., Aksoy, N., Atessahin, A., & Sahna, E. (2010) Effect of lycopene on caspase-3 enzyme activation in liver of methanol-intoxicated rats: comparison with fomepizole. J.Med.Food. 13: 985-991.

Larcombe, S. D., Mullen, W., Alexander, L., & Arnold, K. E. (2010) Dietary antioxidants, lipid peroxidation and plumage colouration in nestling blue tits *Cyanistes caeruleus*. Naturwissenschaften. 97: 903-913.

Larsen, M. K., Nielsen, J. H., Butler, G., Leifert, C., Slots, T., Kristiansen, G. H., & Gustafsson, A. H. (2010) Milk quality as affected by feeding regimens in a country with climatic variation. J.Dairy Sci. 93: 2863-2873.

Leccese, A., Bureau, S., Reich, M., Renard, M. G., Audergon, J. M., Mennone, C., Bartolini, S., & Viti, R. (2010) Pomological and nutraceutical properties in apricot fruit: cultivation systems and cold storage fruit management. Plant Foods Hum.Nutr. 65: 112-120.

Lee, P. C., Holtzapple, E., & Schmidt-Dannert, C. (2010) Novel activity of *Rhodobacter sphaeroides* spheroidene monooxygenase CrtA expressed in *Escherichia coli*. Appl.Environ.Microbiol. 76: 7328-7331.

Lemoine, Y. & Schoefs, B. (2010) Secondary ketocarotenoid astaxanthin biosynthesis in algae: a multifunctional response to stress. Photosynth.Res. 106: 155-177.

Lenucci, M. S., Caccioppola, A., Durante, M., Serrone, L., Leonardo, R., Piro, G., & Dalessandro, G. (2010) Optimisation of biological and physical parameters for lycopene supercritical CO2 extraction from ordinary and high-pigment tomato cultivars. J.Sci.Food Agric. 90: 1709-1718.

Li, B., Vachali, P., & Bernstein, P. S. (2010) Human ocular carotenoid-binding proteins. Photochem.Photobiol.Sci. 9: 1418-1425.

Li, Q., Farre, G., Naqvi, S., Breitenbach, J., Sanahuja, G., Bai, C., Sandmann, G., Capell, T., Christou, P., & Zhu, C. (2010) Cloning and functional characterization of the maize carotenoid isomerase and beta-carotene hydroxylase genes and their regulation during endosperm maturation. Transgenic Res. 19: 1053-1068.

Lima, V. C., Rosen, R. B., Maia, M., Prata, T. S., Dorairaj, S., Farah, M. E., & Sallum, J. (2010) Macular pigment optical density measured by dual-wavelength autofluorescence imaging in diabetic and nondiabetic patients: a comparative study. Invest Ophthalmol.Vis.Sci. 51: 5840-5845.

Loane, E., Nolan, J. M., & Beatty, S. (2010) The respective relationships between lipoprotein profile, macular pigment optical density, and serum concentrations of lutein and zeaxanthin. Invest Ophthalmol.Vis.Sci. 51: 5897-5905.

Lu, Y. P., Liu, S. Y., Sun, H., Wu, X. M., Li, J. J., & Zhu, L. (2010) Neuroprotective effect of astaxanthin on H(2)O(2)-induced neurotoxicity in vitro and on focal cerebral ischemia *in vivo.* Brain Res. 1360:40-8.

Macedo, R. C., Bolin, A. P., Marin, D. P., & Otton, R. (2010) Astaxanthin addition improves human neutrophils function: *in vitro* study. Eur.J.Nutr. 49: 447-457.

Manabe, H., Okonkwo, D. O., Gainer, J. L., Clarke, R. H., & Lee, K. S. (2010) Protection against focal ischemic injury to the brain by trans-sodium crocetinate. Laboratory investigation. J.Neurosurg. 113: 802-809.

Martini, S., D'Addario, C., Bonechi, C., Leone, G., Tognazzi, A., Consumi, M., Magnani, A., & Rossi, C. (2010) Increasing photostability and water-solubility of carotenoids: synthesis and characterization of beta-carotene-humic acid complexes. J.Photochem.Photobiol.B. 101: 355-361.

Maserejian, N. N., Giovannucci, E. L., McVary, K. T., & McKinlay, J. B. (2011) Dietary, but not supplemental, intakes of carotenoids and vitamin C are associated with decreased odds of lower urinary tract symptoms in men. J.Nutr. 141: 267-273.

Mein, J. R., Dolnikowski, G. G., Ernst, H., Russell, R. M., & Wang, X. D. (2011) Enzymatic formation of apo-carotenoids from the xanthophyll carotenoids lutein, zeaxanthin and beta-cryptoxanthin by ferret carotene-9',10'-monooxygenase. Arch.Biochem.Biophys. 506: 109-121.

Meinke, M. C., Darvin, M. E., Vollert, H., & Lademann, J. (2010) Bioavailability of natural carotenoids in human skin compared to blood. Eur.J.Pharm.Biopharm. 76: 269-274.

Meriwether, L. S., Humphrey, B. D., Peterson, D. G., Klasing, K. C., & Koutsos, E. A. (2010) Lutein exposure, in ovo or in the diet, reduces parameters of inflammation in the liver and spleen laying-type chicks (*Gallus gallus* domesticus). J.Anim Physiol Anim Nutr.(Berl). 94: e115-e122.

Mohajeri, S. A., Hosseinzadeh, H., Keyhanfar, F., & Aghamohammadian, J. (2010) Extraction of crocin from saffron (*Crocus sativus*) using molecularly imprinted polymer solid-phase extraction. J.Sep.Sci. 33: 2302-2309.

Moline, M., Flores, M. R., Libkind, D., Dieguez, M. C., Farias, M. E., & van Broock, M. (2010) Photoprotection by carotenoid pigments in the yeast *Rhodotorula mucilaginosa*: the role of torularhodin. Photochem.Photobiol.Sci. 9: 1145-1151.

N'dri, D., Calani, L., Mazzeo, T., Scazzina, F., Rinaldi, M., Rio, D. D., Pellegrini, N., & Brighenti, F. (2010) Effects of different maturity stages on antioxidant content of Ivorian

Gnagnan (*Solanum indicum* L.) berries. Molecules. 15: 7125-7138.

Naghizadeh, B., Mansouri, S. M., & Mashhadian, N. V. (2010) Crocin attenuates cisplatin-induced renal oxidative stress in rats. Food Chem Toxicol. 48: 2650-2655.

Nam, K. N., Park, Y. M., Jung, H. J., Lee, J. Y., Min, B. D., Park, S. U., Jung, W. S., Cho, K. H., Park, J. H., Kang, I., Hong, J. W., & Lee, E. H. (2010) Anti-inflammatory effects of crocin and crocetin in rat brain microglial cells. Eur.J.Pharmacol. 648: 110-116.

Namboodiri, V., Namboodiri, M., Flachenecker, G., & Materny, A. (2010) Two-photon resonances in femtosecond time-resolved four-wave mixing spectroscopy: beta-carotene. J.Chem Phys. 133: 054503.

Namitha, K. K. & Negi, P. S. (2010) Chemistry and biotechnology of carotenoids. Crit Rev.Food Sci.Nutr. 50: 728-760.

Nicklett, E. J., Szanton, S., Sun, K., Ferrucci, L., Fried, L. P., Guralnik, J. M., & Semba, R. D. (2011) Neighborhood socioeconomic status is associated with serum carotenoid concentrations in older, community-dwelling women. J.Nutr. 141: 284-289.

Nishiyama, Y., Sugimoto, M., Ikeda, S., & Kume, S. (2011) Supplemental beta-carotene increases IgA-secreting cells in mammary gland and IgA transfer from milk to neonatal mice. Br.J.Nutr. 105: 24-30.

Nokubi, T., Nokubi, F., Yoshimuta, Y., Ikebe, K., Ono, T., & Maeda, Y. (2010) Measuring masticatory performance using a new device and beta-carotene in test gummy jelly. J.Oral Rehabil. 37: 820-826.

O'Doherty, M. G., Gilchrist, S. E., Young, I. S., McKinley, M. C., Yarnell, J. W., Gey, K. F., Evans, A., Skidmore, P. M., & Woodside, J. V. (2010) Effect of supplementation with B vitamins and antioxidants on levels of asymmetric dimethylarginine (ADMA) and C-reactive protein (CRP): a double-blind, randomised, factorial design, placebo-controlled trial. Eur.J.Nutr. 49: 483-492.

Oldfield, E. (2010) Targeting isoprenoid biosynthesis for drug discovery: bench to bedside. Acc.Chem Res. 43: 1216-1226.

Oliveira-Menegozzo, J. M., Bergamaschi, D. P., Middleton, P., & East, C. E. (2010) Vitamin A supplementation for postpartum women. Cochrane.Database.Syst.Rev. CD005944.

Ouchi, A., Aizawa, K., Iwasaki, Y., Inakuma, T., Terao, J., Nagaoka, S., & Mukai, K. (2010) Kinetic study of the quenching reaction of singlet oxygen by carotenoids and food extracts in solution. Development of a singlet oxygen absorption capacity (SOAC) assay method. J.Agric.Food Chem. 58: 9967-9978.

Pal, J., Ganguly, S., Tahsin, K. S., & Acharya, K. (2010) *In vitro* free radical scavenging activity of wild edible mushroom, *Pleurotus squarrosulus* (Mont.) Singer. Indian J.Exp.Biol. 48: 1210-1218.

Payette, M. J., Whalen, J., & Grant-Kels, J. M. (2010) Nutrition and nonmelanoma skin cancers. Clin.Dermatol. 28: 650-662.

Peterson, C. E., Sedjo, R. L., Davis, F. G., Beam, C. A., & Giuliano, A. R. (2010) Combined antioxidant carotenoids and the risk of persistent human papillomavirus infection. Nutr.Cancer. 62: 728-733.

Pirgozliev, V., Karadas, F., Pappas, A., Acamovic, T., & Bedford, M. R. (2010) The effect on performance, energy metabolism and hepatic carotenoid content when phytase supplemented diets were fed to broiler chickens. Res.Vet.Sci. 89: 203-205.

Polaino, S., Herrador, M. M., Cerda-Olmedo, E., & Barrero, A. F. (2010) Splitting of beta-carotene in the sexual interaction of *Phycomyces*. Org.Biomol.Chem. 8: 4229-4231.

Polivka, T. & Frank, H. A. (2010) Molecular factors controlling photosynthetic light harvesting by carotenoids. Acc.Chem Res. 43: 1125-1134.

Que, R. S., Cao, L. P., Ding, G. P., Hu, J. A., Mao, K. J., & Wang, G. F. (2010) Correlation of nitric oxide and other free radicals with the severity of acute pancreatitis and complicated systemic inflammatory response syndrome. Pancreas. 39: 536-540.

Rana, S. V., Pal, R., Vaiphei, K., Ola, R. P., & Singh, K. (2010) Hepatoprotection by carotenoids in isoniazid-rifampicin induced hepatic injury in rats. Biochem.Cell Biol. 88: 819-834.

Ranga, R. A., Raghunath Reddy, R. L., Baskaran, V., Sarada, R., & Ravishankar, G. A. (2010) Characterization of microalgal carotenoids by mass spectrometry and their bioavailability and antioxidant properties elucidated in rat model. J.Agric.Food Chem. 58: 8553-8559.

Renzi, L. M. & Hammond, B. R. (2010) The effect of macular pigment on heterochromatic luminance contrast. Exp.Eye Res. 91: 896-900.

Renzi, L. M. & Hammond, B. R., Jr. (2010) The relation between the macular carotenoids, lutein and zeaxanthin, and temporal vision. Ophthalmic Physiol Opt. 30: 351-357.

Reppert, M., Acharya, K., Neupane, B., & Jankowiak, R. (2010) Lowest electronic states of the CP47 antenna protein complex of photosystem II: simulation of optical spectra and revised structural assignments. J.Phys.Chem B. 114: 11884-11898.

Riccioni, G., D'Orazio, N., Speranza, L., Di Ilio, E., Glade, M., Bucciarelli, V., Scotti, L., Martini, F., Pennelli, A., & Bucciarelli, T. (2010) Carotenoids and asymptomatic carotid atherosclerosis. J.Biol.Regul.Homeost.Agents. 24: 447-452.

Rice, A. L. & Burns, J. B. (2010) Moving from efficacy to effectiveness: red palm oil's role in preventing vitamin A deficiency. J.Am.Coll.Nutr. 29: 302S-313S.

Riso, P., Brusamolino, A., Contino, D., Martini, D., Vendrame, S., Del Bo', C., & Porrini, M. (2010) Lycopene absorption in humans after the intake of two different single-dose lycopene formulations. Pharmacol.Res. 62: 318-321.

Rodriguez-Saiz, M., De La Fuente, J. L., & Barredo, J. L. (2010) *Xanthophyllomyces dendrorhous* for the industrial production of astaxanthin. Appl.Microbiol.Biotechnol. 88: 645-658.

Romagnoli, C., Tirone, C., Persichilli, S., Gervasoni, J., Zuppi, C., Barone, G., & Zecca, E. (2010) Lutein absorption in premature infants. Eur.J.Clin.Nutr. 64: 760-761.

Rostoka, E., Isajevs, S., Baumane, L., Line, A., Silina, K., Dzintare, M., Sharipova, J., Svirina, D., Kalvinsh, I., & Sjakste, N. (2010) Effects of lycopene, indole-3-carbinol, and luteolin on nitric oxide production and iNOS expression are organ-specific in rats. Arh.Hig.Rada Toksikol. 61: 275-285.

Rubio-Diaz, D. E., Santos, A., Francis, D. M., & Rodriguez-Saona, L. E. (2010) Carotenoid stability during production and storage of tomato juice made from tomatoes with diverse pigment profiles measured by infrared spectroscopy. J.Agric.Food Chem. 58: 8692-8698.

Ruiz-Anchondo, T., Flores-Holguin, N., & Glossman-Mitnik, D. (2010) Natural carotenoids as nanomaterial precursors for molecular photovoltaics: a computational DFT study. Molecules. 15: 4490-4510.

Sahin, K., Tuzcu, M., Sahin, N., Ali, S., & Kucuk, O. (2010) Nrf2/HO-1 signaling pathway may be the prime target for chemoprevention of cisplatin-induced nephrotoxicity by lycopene. Food Chem Toxicol. 48: 2670-2674.

Sahin, K., Sahin, N., & Kucuk, O. (2010) Lycopene and chemotherapy toxicity. Nutr.Cancer. 62: 988-995.

Sakagami, Y., Sumiya, Y., & Komemushi, S. (2010) [Research on search of the carotenoid-producing microorganisms in marine area and the improvement of production ratio]. Yakugaku Zasshi. 130: 1445-1451.

Sandhir, R., Mehrotra, A., & Kamboj, S. S. (2010) Lycopene prevents 3-nitropropionic acid-induced mitochondrial oxidative stress and dysfunctions in nervous system. Neurochem.Int. 57: 579-587.

Sandmann, G. (2010) A nitromethane-based HPLC system alternative to acetonitrile for carotenoid analysis of fruit and vegetables. Phytochem.Anal. 21: 434-437.

Sangeetha, R. K. & Baskaran, V. (2010) Retinol-deficient rats can convert a pharmacological dose of astaxanthin to retinol: antioxidant potential of astaxanthin, lutein, and beta-carotene. Can.J.Physiol Pharmacol. 88: 977-985.

Santos, L., Kasper, R., Gil-Serna, J., Marin, S., Sanchis, V., & Ramos, A. J. (2010) Effect of Capsicum carotenoids on growth and ochratoxin A production by chilli and paprika *Aspergillus* spp. isolates. Int.J.Food Microbiol. 142: 354-359.

Santos, L., Kasper, R., Sardinas, N., Marin, S., Sanchis, V., & Ramos, A. J. (2010) Effect of Capsicum carotenoids on growth and aflatoxins production by *Aspergillus flavus* isolated from paprika and chilli. Food Microbiol. 27: 1064-1070.

Seki, T., Hasegawa, Y., Yamaguchi, J., Kanoh, T., Ishiguro, N., Tsuboi, M., Ito, Y., Hamajima, N., & Suzuki, K. (2010) Association of serum carotenoids, retinol, and tocopherols with radiographic knee osteoarthritis: possible risk factors in rural Japanese inhabitants. J.Orthop.Sci. 15: 477-484.

Semba, R. D., Patel, K. V., Ferrucci, L., Sun, K., Roy, C. N., Guralnik, J. M., & Fried, L. P.

(2010) Serum antioxidants and inflammation predict red cell distribution width in older women: the Women's Health and Aging Study I. Clin.Nutr. 29: 600-604.

Shimoda, H., Tanaka, J., Shan, S. J., & Maoka, T. (2010) Anti-pigmentary activity of fucoxanthin and its influence on skin mRNA expression of melanogenic molecules. J.Pharm.Pharmacol. 62: 1137-1145.

Shvetsov, Y. B., Hernandez, B. Y., Wilkens, L. R., Thompson, P. J., Franke, A. A., Zhu, X., & Goodman, M. T. (2010) Plasma micronutrients and the acquisition and clearance of anal human papillomavirus infection: the Hawaii HPV cohort study. Cancer Res. 70: 9787-9797.

Sillanpaa, S., Salminen, J. P., & Eeva, T. (2010) Fluctuating asymmetry in great tit nestlings in relation to diet quality, calcium availability and pollution exposure. Sci.Total Environ. 408: 3303-3309.

Socha, P., Skorupa, E., Pawlowska, J., Wierzbicka, A., Dhawan, A., Jankowska, I., Karczmarewicz, E., Kubalska, J., Lukaszkiewicz, J., & Lorenc, R. (2010) beta-Carotene deficiency in cholestatic liver disease of childhood is caused by beta-carotene malabsorption. J.Pediatr.Gastroenterol.Nutr. 51: 106-109.

Stangl, V., Kuhn, C., Hentschel, S., Jochmann, N., Jacob, C., Bohm, V., Frohlich, K., Muller, L., Gericke, C., & Lorenz, M. (2011) Lack of effects of tomato products on endothelial function in human subjects: results of a randomised, placebo-controlled cross-over study. Br.J.Nutr. 105: 263-267.

Stickforth, P. & Sandmann, G. (2011) Structural and kinetics properties of a mutated phytoene desaturase from *Rubrivivax gelatinosus* with modified product specificity. Arch.Biochem.Biophys. 505: 118-122.

Sucharita, K., Sasikala, C., & Ramana, C. V. (2010) *Thiorhodococcus modestalkaliphilus* sp. nov. a phototrophic gammaproteobacterium from Chilika salt water lagoon, India. J.Gen.Appl.Microbiol. 56: 93-99.

Sun, T. H., Liu, C. Q., Hui, Y. Y., Wu, W. K., Zhou, Z. G., & Lu, S. (2010) Coordinated regulation of gene expression for carotenoid metabolism in *Chlamydomonas reinhardtii*. J.Integr.Plant Biol. 52: 868-878.

Svelander, C. A., Tiback, E. A., Ahrne, L. M., Langton, M. I., Svanberg, U. S., & Alminger, M. A. (2010) Processing of tomato: impact on *in vitro* bioaccessibility of lycopene and textural properties. J.Sci.Food Agric. 90: 1665-1672.

Tadmor, Y., Burger, J., Yaakov, I., Feder, A., Libhaber, S. E., Portnoy, V., Meir, A., Tzuri, G., Sa'ar, U., Rogachev, I., Aharoni, A., Abeliovich, H., Schaffer, A. A., Lewinsohn, E., & Katzir, N. (2010) Genetics of flavonoid, carotenoid, and chlorophyll pigments in melon fruit rinds. J.Agric.Food Chem. 58: 10722-10728.

Tamaddonfard, E. & Hamzeh-Gooshchi, N. (2010) Effects of intraperitoneal and intracerebroventricular injection of crocin on acute corneal pain in rats. Phytother.Res. 24: 1463-1467.

Tan, S., Zhang, G., Shen, A., Hu, J., & Hu, J. (2010) Study on the resonance Raman scattering properties of beta-carotene incorporated into SBA-15. Spectrochim.Acta A

Mol.Biomol.Spectrosc. 77: 518-521.

Tanaka, M., Kamiya, Y., Suzuki, T., & Nakai, Y. (2010) Effect of citrus pulp silage feeding on concentration of beta-cryptoxanthin in plasma and milk of dairy cows. Anim Sci.J. 81: 569-573.

Tian, B. & Hua, Y. (2010) Carotenoid biosynthesis in extremophilic *Deinococcus-Thermus* bacteria. Trends Microbiol. 18: 512-520.

Tibodeau, J. D., Isham, C. R., & Bible, K. C. (2010) Annatto constituent *cis*-bixin has selective antimyeloma effects mediated by oxidative stress and associated with inhibition of thioredoxin and thioredoxin reductase. Antioxid.Redox.Signal. 13: 987-997.

Trabert, B., Peters, U., De Roos, A. J., Scholes, D., & Holt, V. L. (2011) Diet and risk of endometriosis in a population-based case-control study. Br.J.Nutr. 105: 459-467.

Tsuchida, T., Koga, R., Horikawa, M., Tsunoda, T., Maoka, T., Matsumoto, S., Simon, J. C., & Fukatsu, T. (2010) Symbiotic bacterium modifies aphid body color. Science. 330: 1102-1104.

Tydeman, E. A., Parker, M. L., Wickham, M. S., Rich, G. T., Faulks, R. M., Gidley, M. J., Fillery-Travis, A., & Waldron, K. W. (2010) Effect of carrot (*Daucus carota*) microstructure on carotene bioaccessibilty in the upper gastrointestinal tract. 1. *In vitro* simulations of carrot digestion. J.Agric.Food Chem. 58: 9847-9854.

Tydeman, E. A., Parker, M. L., Faulks, R. M., Cross, K. L., Fillery-Travis, A., Gidley, M. J., Rich, G. T., & Waldron, K. W. (2010) Effect of carrot (*Daucus carota*) microstructure on carotene bioaccessibility in the upper gastrointestinal tract. 2. *In vivo* digestions. J.Agric.Food Chem. 58: 9855-9860.

Uchida, Y., Uchida, Y., Kawai, S., Kanamaru, R., Sugiyama, Y., Tomaru, T., Maezawa, Y., & Kameda, N. (2010) Detection of vulnerable coronary plaques by color fluorescent angioscopy. JACC.Cardiovasc.Imaging. 3: 398-408.

Vallabhaneni, R. & Wurtzel, E. T. (2010) From epoxycarotenoids to ABA: the role of ABA 8'-hydroxylases in drought-stressed maize roots. Arch.Biochem.Biophys. 504: 112-117.

Verwaal, R., Jiang, Y., Wang, J., Daran, J. M., Sandmann, G., van den Berg, J. A., & van Ooyen, A. J. (2010) Heterologous carotenoid production in *Saccharomyces cerevisiae* induces the pleiotropic drug resistance stress response. Yeast. 27: 983-998.

Villaca, C. G., Goncalves, d. S., Cardoso, d. M., Abrantes, P. W., Pereira, S. E., Saboya, C. J., D'Almeida, C. A., & Ramalho, A. (2010) Serum retinol and beta-carotene levels and risk factors for cardiovascular disease in morbid obesity. Int.J.Vitam.Nutr.Res. 80: 159-167.

Vogel, J. T., Tieman, D. M., Sims, C. A., Odabasi, A. Z., Clark, D. G., & Klee, H. J. (2010) Carotenoid content impacts flavor acceptability in tomato (*Solanum lycopersicum*). J.Sci.Food Agric. 90: 2233-2240.

Wakshlag, J. J. & Balkman, C. E. (2010) Effects of lycopene on proliferation and death of canine osteosarcoma cells. Am.J.Vet.Res. 71: 1362-1370.

Wang, C., Gong, J., Xing, Q., Li, Y., Liu, F., Zhao, X., Chai, L., Wang, C., & Zheltikov, A. M. (2010) Application of terahertz time-domain spectroscopy in intracellular metabolite detection. J.Biophotonics. 3: 641-645.

Wang, H. & Leung, L. K. (2010) The carotenoid lycopene differentially regulates phase I and II enzymes in dimethylbenz[a]anthracene-induced MCF-7 cells. Nutrition. 26: 1181-1187.

Wang, H. Q., Sun, X. B., Xu, Y. X., Zhao, H., Zhu, Q. Y., & Zhu, C. Q. (2010) Astaxanthin upregulates heme oxygenase-1 expression through ERK1/2 pathway and its protective effect against beta-amyloid-induced cytotoxicity in SH-SY5Y cells. Brain Res. 1360:159-67.

Wang, Y., Roger, I. D., Connor, S. L., Barton, D. P., & Connor, W. E. (2010) Competitive inhibition of carotenoid transport and tissue concentrations by high dose supplements of lutein, zeaxanthin and beta-carotene. Eur.J.Nutr. 49: 327-336.

Wei, J., Xu, M., Zhang, D., & Mi, H. (2010) The role of carotenoid isomerase in maintenance of photosynthetic oxygen evolution in rice plant. Acta Biochim.Biophys.Sin.(Shanghai). 42: 457-463.

Wieringa, F. T., Dijkhuizen, M. A., Muhilal, & van der Meer, J. W. (2010) Maternal micronutrient supplementation with zinc and beta-carotene affects morbidity and immune function of infants during the first 6 months of life. Eur.J.Clin.Nutr. 64: 1072-1079.

Wu, N. L., Chiang, Y. C., Huang, C. C., Fang, J. Y., Chen, D. F., & Hung, C. F. (2010) Zeaxanthin inhibits PDGF-BB-induced migration in human dermal fibroblasts. Exp.Dermatol. 19: e173-e181.

Wu, W., Lu, M., & Yu, L. (2010) Citrus residues isolates improve astaxanthin production by *Xanthophyllomyces dendrorhous*. Z.Naturforsch.C. 65: 594-598.

Wu, Z., Chen, G., Chong, S., Mak, N. K., Chen, F., & Jiang, Y. (2010) Ultraviolet-B radiation improves astaxanthin accumulation in green microalga *Haematococcus pluvialis*. Biotechnol.Lett. 32: 1911-1914.

Yamaguchi, M., Hasegawa, I., Yahagi, N., Ishigaki, Y., Takano, F., & Ohta, T. (2010) Carotenoids modulate cytokine production in Peyer's patch cells *ex vivo*. J.Agric.Food Chem. 58: 8566-8572.

Yamamoto, K., Ishikawa, C., Katano, H., Yasumoto, T., & Mori, N. (2011) Fucoxanthin and its deacetylated product, fucoxanthinol, induce apoptosis of primary effusion lymphomas. Cancer Lett. 300: 225-234.

Yin, Y., Li, S., Liao, W., Lu, Q., Wen, X., & Lu, C. (2010) Photosystem II photochemistry, photoinhibition, and the xanthophyll cycle in heat-stressed rice leaves. J.Plant Physiol. 167: 959-966.

Zak, P. P., Zykova, A. V., Trofimova, N. N., Abu Khamidakh, A. E., Fokin, A. I., Eskina, E. N., & Ostrovsky, M. A. (2010) The experimental model for studying of human age retinal degeneration (Japanese quail *C. Japonica*). Dokl.Biol.Sci. 434:297-9.

Zhang, F., He, J., Xia, L., Cai, M., Lin, L., & Guang, Y. (2010) Applying and comparing two chemometric methods in absorption spectral analysis of photopigments from Arctic

microalgae. J.Microbiol.Methods. 83: 120-126.

Zhang, X., Wang, Q., Neil, B., & Chen, X. (2010) Effect of lycopene on androgen receptor and prostate-specific antigen velocity. Chin Med.J.(Engl.). 123: 2231-2236.

Zhou, C. H., Xiang, M., He, S. Y., & Qian, Z. Y. (2010) Protein kinase C pathway is involved in the inhibition by crocetin of vascular smooth muscle cells proliferation. Phytother.Res. 24: 1680-1686.

Zhu, S. H. & Green, B. R. (2010) Photoprotection in the diatom *Thalassiosira pseudonana*: role of LI818-like proteins in response to high light stress. Biochim.Biophys.Acta. 1797: 1449-1457.

Zhu, Z., Margulis-Goshen, K., Magdassi, S., Talmon, Y., & Macosko, C. W. (2010) Polyelectrolyte stabilized drug nanoparticles via flash nanoprecipitation: a model study with beta-carotene. J.Pharm.Sci. 99: 4295-4306.