

Current and Relevant Publications on Vitamins, Carotenoids and Other Health Ingredients¹

Update November 2007

Antioxidants

[HIF-dependent antitumorigenic effect of antioxidants in vivo.](#)

Gao P, Zhang H, Dinavahi R, Li F, Xiang Y, Raman V, Bhujwalla ZM, Felsher DW, Cheng L, Pevsner J, Lee LA, Semenza GL, Dang CV.
Cancer Cell. 2007 Sep;12(3):230-8.

[Atherosclerosis and oxidant stress: the end of the road for antioxidant vitamin treatment?](#)

Thomson MJ, Puntmann V, Kaski JC.
Cardiovasc Drugs Ther. 2007 Jun;21(3):195-210. Review.

[Impact of antioxidant supplementation on chemotherapeutic efficacy: a systematic review of the evidence from randomized controlled trials.](#)

Block KI, Koch AC, Mead MN, Tothy PK, Newman RA, Gyllenhaal C.
Cancer Treat Rev. 2007 Aug;33(5):407-18. Epub 2007 Mar 23. Review.

[Influence of habitual diet on antioxidant status: a study in a population of vegetarians and omnivores.](#)

Haldar S, Rowland IR, Barnett YA, Bradbury I, Robson PJ, Powell J, Fletcher J.
Eur J Clin Nutr. 2007 Aug;61(8):1011-22. Epub 2007 Feb 14.

[Antioxidant activity of N-acetylcysteine, flavonoids and alpha-tocopherol on endometrial cells in culture.](#)

Estany S, Palacio JR, Barnadas R, Sabes M, Iborra A, Martínez P.
J Reprod Immunol. 2007 Aug;75(1):1-10. Epub 2007 Mar 6.

[Randomised, double blind, placebo controlled trial of intravenous antioxidant \(n-acetylcysteine, selenium, vitamin C\) therapy in severe acute pancreatitis.](#)

Siriwardena AK, Mason JM, Balachandra S, Bagul A, Galloway S, Formela L, Hardman JG, Jamdar S.
Gut. 2007 Oct;56(10):1439-44. Epub 2007 Mar 13.

¹ Diese Auswahl an Publikationen aus dem Bereich Vitamine, Mineralstoffe und sekundäre Pflanzenstoffe wird von der GVF getroffen und erhebt keinen Anspruch auf Vollständigkeit.

[Mechanism of the antioxidant to pro-oxidant switch in the behavior of dehydroascorbate during LDL oxidation by copper\(II\) ions.](#)

Horsley ET, Burkitt MJ, Jones CM, Patterson RA, Harris LK, Moss NJ, del Rio JD, Leake DS.

Arch Biochem Biophys. 2007 Sep 15;465(2):303-14. Epub 2007 Jul 14.

[Antioxidant therapy in critical care--is the microcirculation the primary target?](#)

Biesalski HK, McGregor GP.

Crit Care Med. 2007 Sep;35(9 Suppl):S577-83. Review.

[Fostering antioxidant defences: up-regulation of antioxidant genes or antioxidant supplementation?](#)

Viña J, Gomez-Cabrera MC, Borras C.

Br J Nutr. 2007 Oct;98 Suppl 1:S36-40.

Vitamin A

[Effect of vitamin A and zinc supplementation on gastrointestinal parasitic infections among Mexican children.](#)

Long KZ, Rosado JL, Montoya Y, de Lourdes Solano M, Hertzmark E, DuPont HL, Santos JI.

Pediatrics. 2007 Oct;120(4):e846-55.

B-Vitamins

[\[Review of the role of hyperhomocysteinemia and B-vitamin deficiency in neurological and psychiatric disorders--current evidence and preliminary recommendations\]](#)

Herrmann W, Lorenzi S, Obeid R.

Fortschr Neurol Psychiatr. 2007 Sep;75(9):515-27. Review. German.

[Elevated plasma homocysteine concentration in elderly patients with mental illness is mainly related to the presence of vascular disease and not the diagnosis.](#)

Nilsson K, Gustafson L, Hultberg B.

Dement Geriatr Cogn Disord. 2007;24(3):162-8. Epub 2007 Jul 17.

[Plasma homocysteine, folate and B12 in chronic schizophrenia.](#)

Haidemenos A, Kontis D, Gazi A, Kallai E, Allin M, Lucia B.

Prog Neuropsychopharmacol Biol Psychiatry. 2007 Aug 15;31(6):1289-96. Epub 2007 Jun 2.

[B-group vitamins, MTHFR C677T polymorphism and carotid intima-media thickness in clinically healthy subjects.](#)

Liu CS, Chen CH, Chiang HC, Kuo CL, Huang CS, Cheng WL, Wei YH, Chen HW.

Eur J Clin Nutr. 2007 Aug;61(8):996-1003. Epub 2007 Jan 17.

[Homocysteine, folic acid and B12 serum levels in pregnancy complicated with preeclampsia.](#)

Makedos G, Papanicolaou A, Hitoglou A, Kalogiannidis I, Makedos A, Vrazioti V, Goutzioulis M.

Arch Gynecol Obstet. 2007 Feb;275(2):121-4. Epub 2006 Aug 29.

[Homocysteine, vitamins, and vascular disease prevention.](#)

McCully KS.

Am J Clin Nutr. 2007 Nov;86(5):1563S-8S.

[The effect of walking and vitamin B supplementation on quality of life in community-dwelling adults with mild cognitive impairment: a randomized, controlled trial.](#)

van Uffelen JG, Chin A Paw MJ, Hopman-Rock M, van Mechelen W.

Qual Life Res. 2007 Sep;16(7):1137-46. Epub 2007 Jul 7.

[Effect of short-term folate and vitamin B supplementation on blood homocysteine level and carotid artery wall thickness in chronic hemodialysis patients.](#)

Tungkasereerak P, Ong-ajyooth L, Chaiyasoot W, Ong-ajyooth S, Leowattana W, Vasuvattakul S, Vareesangthip K, Shayakul C, Chanchairujira T, Sritippayawan S.

J Med Assoc Thai. 2006 Aug;89(8):1187-93.

Vitamin B6

[Both vitamin B6 and total homocysteine plasma levels predict long-term atherothrombotic events in healthy subjects.](#)

Vanuzzo D, Pilotto L, Lombardi R, Lazzarini G, Carluccio M, Diviacco S, Quadrifoglio F, Danek G, Gregori D, Fioretti P, Cattaneo M, De Caterina R.

Eur Heart J. 2007 Feb;28(4):484-91. Epub 2007 Jan 31.

Folic acid

[Trends in folic acid supplement intake among women of reproductive age--California, 2002-2006.](#)

Centers for Disease Control and Prevention (CDC).

MMWR Morb Mortal Wkly Rep. 2007 Oct 26;56(42):1106-9.

[Folic acid and cognition in older persons.](#)

Schneider JA, Tangney CC, Morris MC.
Expert Opin Drug Saf. 2006 Jul;5(4):511-22.

[Alcohol and folate consumption and risk of benign proliferative epithelial disorders of the breast.](#)

Cui Y, Page DL, Chlebowski RT, Beresford SA, Hendrix SL, Lane DS, Rohan TE.
Int J Cancer. 2007 Sep 15;121(6):1346-51.

[Decline in the incidence of neural tube defects after the national fortification of flour \(1997-2005\).](#)

Safdar OY, Al-Dabbagh AA, Abuelienseen WA, Kari JA.
Saudi Med J. 2007 Aug;28(8):1227-9.

[Associations between 2 polymorphisms in the methylenetetrahydrofolate reductase gene and placental abruption.](#)

Ananth CV, Peltier MR, De Marco C, Elsasser DA, Getahun D, Rozen R, Smulian JC; New Jersey-Placental Abruption Study Investigators.
Am J Obstet Gynecol. 2007 Oct;197(4):385.e1-7.

[First trimester diagnosis of iniencephaly associated with fetal malformations and trisomy report of a new case and gene analysis on folate metabolism in parents.](#)

Tonni G, Azzoni D, Panteghini M, Ventura A, Cavalli P.
Congenit Anom (Kyoto). 2007 Sep;47(3):101-4.

[Antiepileptic drugs and MTHFR polymorphisms influence hyperhomocysteinemia recurrence in epileptic patients.](#)

Belcastro V, Gaetano G, Italiano D, Oteri G, Caccamo D, Pisani LR, Striano P, Striano S, Ientile R, Pisani F.
Epilepsia. 2007 Oct;48(10):1990-4. Epub 2007 Jun 11.

Vitamin C

[New developments and novel therapeutic perspectives for vitamin C.](#)

Li Y, Schellhorn HE.
J Nutr. 2007 Oct;137(10):2171-84. Review.

[Vitamin C restores the contractile response to dobutamine and improves myocardial efficiency in patients with heart failure after anterior myocardial infarction.](#)

Shinke T, Shite J, Takaoka H, Hata K, Inoue N, Yoshikawa R, Matsumoto H, Masai H, Watanabe S, Ozawa T, Otake H, Matsumoto D, Hirata K, Yokoyama M.
Am Heart J. 2007 Oct;154(4):645.e1-8.

[Role of ascorbic acid in scavenging free radicals and lead toxicity from biosystems.](#)

Tariq SA.

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Vitamin D

[The effects of vitamin D deficiency and insufficiency on the endocrine and paracrine systems.](#)

Alpert PT, Shaikh U.

Biol Res Nurs. 2007 Oct;9(2):117-29. Review.

[Seasonal variation in vitamin D levels in the Canterbury, New Zealand population in relation to available UV radiation.](#)

Livesey J, Elder P, Ellis MJ, McKenzie R, Liley B, Florkowski C.

N Z Med J. 2007 Sep 21;120(1262):U2733.

[Vitamin D and muscle strength in patients with previous fractures.](#)

Inderjeeth CA, Glennon D, Petta A, Soderstrom J, Boyatzis I, Tapper J.

N Z Med J. 2007 Sep 21;120(1262):U2730.

[Preventing hip fracture after stroke.](#)

Bast BA, Greenwald BD.

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[Serum 25-hydroxyvitamin D, ethnicity, and blood pressure in the Third National Health and Nutrition Examination Survey.](#)

Scragg R, Sowers M, Bell C.

Am J Hypertens. 2007 Jul;20(7):713-9.

[Maternal vitamin D deficiency increases the risk of preeclampsia.](#)

Bodnar LM, Catov JM, Simhan HN, Holick MF, Powers RW, Roberts JM.

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[Vitamin D in childhood and adolescence.](#)

Cashman KD.

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[Prevalence of vitamin D insufficiency in obese children and adolescents.](#)

Smotkin-Tangorra M, Purushothaman R, Gupta A, Nejati G, Anhalt H, Ten S.

J Pediatr Endocrinol Metab. 2007 Jul;20(7):817-23.

[Maternal vitamin D deficiency associated with neonatal hypocalcaemic convulsions.](#)

Camadoo L, Tibbott R, Isaza F.

Nutr J. 2007 Sep 19;6:23.

[Advances in the diagnosis and treatment of osteoporosis.](#)

Simmons J, Zeitler P, Steelman J.
Adv Pediatr. 2007;54:85-114. Review.

[Shedding light on hypovitaminosis D and rickets.](#)

Iyer P, Diamond FB Jr.
Adv Pediatr. 2007;54:115-33. Review.

[Alterations of vitamin D3 metabolism in young women with various grades of chronic pancreatitis.](#)

Teichmann J, Mann ST, Stracke H, Lange U, Hardt PD, Klör HU, Bretzel RG.
Eur J Med Res. 2007 Aug 16;12(8):347-50.

[Prospective study of serum vitamin D and cancer mortality in the United States.](#)

Freedman DM, Looker AC, Chang SC, Graubard BI.
J Natl Cancer Inst. 2007 Nov 7;99(21):1594-602. Epub 2007 Oct 30.

[Hip fractures after stroke and their prevention.](#)

Myint PK, Poole KE, Warburton EA.
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[Neonatal vitamin D status at birth at latitude 32 degrees 72': evidence of deficiency.](#)

Basile LA, Taylor SN, Wagner CL, Quinones L, Hollis BW.
J Perinatol. 2007 Sep;27(9):568-71. Epub 2007 Jul 12.

Vitamin E

[alpha-Tocopherol increases caspase-3 up-regulation and apoptosis by beta-carotene cleavage products in human neutrophils.](#)

Salerno C, Capuozzo E, Crifo C, Siems W.
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[Does vitamin E prevent gentamicin-induced ototoxicity?](#)

Kharkheli E, Kevanishvili Z, Maglakelidze T, Davitashvili O, Schacht J.
Georgian Med News. 2007 May;(146):14-7.

[Human plasma levels of vitamin E and carotenoids are associated with genetic polymorphisms in genes involved in lipid metabolism.](#)

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[Salivary vitamins E and C in oral cancer.](#)

Rai B, Kharb S, Jain R, Anand SC.
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Vitamin K

[Prospective study of supplemental vitamin K therapy in patients on oral anticoagulants with unstable international normalized ratios.](#)

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[Chitosan potentiation of warfarin effect.](#)

Huang SS, Sung SH, Chiang CE.
Ann Pharmacother. 2007 Nov;41(11):1912-4. Epub 2007 Oct 9.

Multivitamins

[Vitamin and mineral supplements: what is the dentist to do?](#)

Touger-Decker R.
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[Effect of multivitamin supplementation on the homocysteine and methylmalonic acid blood concentrations in women over the age of 60 years.](#)

Wolters M, Hermann S, Hahn A.
Eur J Nutr. 2005 Mar;44(3):183-92. Epub 2004 May 19.

[Dietary intake of elderly living in Toronto long-term care facilities: comparison to the dietary reference intake.](#)

Aghdassi E, McArthur M, Liu B, McGeer A, Simor A, Allard JP.
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[Adjunctive care with nutritional, herbal, and homeopathic complementary and alternative medicine modalities in stroke treatment and rehabilitation.](#)

Bell IR.
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Carotenoids

[Chemoprevention of lung cancers: lessons from CARET, the beta-carotene and retinol efficacy trial, and prospects for the future.](#)

Omenn GS.
Eur J Cancer Prev. 2007 Jun;16(3):184-91. Review.

[Serum lycopene, other carotenoids, and prostate cancer risk: a nested case-control study in the prostate, lung, colorectal, and ovarian cancer screening trial.](#)

Peters U, Leitzmann MF, Chatterjee N, Wang Y, Albanes D, Gelmann EP, Friesen MD, Riboli E, Hayes RB.
Cancer Epidemiol Biomarkers Prev. 2007 May;16(5):962-8.

[Metabolic engineering of carotenoid accumulation by creating a metabolic sink.](#)

Li L, Van Eck J.
Transgenic Res. 2007 Oct;16(5):581-5. Epub 2007 Jul 6. Review.

[Beta-carotene inhibits tumor-specific angiogenesis by altering the cytokine profile and inhibits the nuclear translocation of transcription factors in B16F-10 melanoma cells.](#)

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Integr Cancer Ther. 2007 Sep;6(3):258-70.

[Lycopene status is not associated with insulin-like growth factor-1 concentration in a healthy male population.](#)

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[Carotenoids and flavonoids contribute to nutritional protection against skin damage from sunlight.](#)

Stahl W, Sies H.
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[The protective role of carotenoids against 7-keto-cholesterol formation in solution.](#)

Palozza P, Barone E, Mancuso C, Picci N.
Mol Cell Biochem. 2007 Nov 16; [Epub ahead of print]

[\[Carotenoid pigments: structural and physicochemical considerations\]](#)

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Flavonoids

[Comparative evaluation of various total antioxidant capacity assays applied to phenolic compounds with the CUPRAC assay.](#)

Apak R, Guclu K, Demirata B, Ozyurek M, Celik SE, Bektasoglu B, Berker KI, Ozyurt D.
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[Role of flavonoids and vitamins in cancer.](#)

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[Synergistic effects of phenolics and carotenoids on human low-density lipoprotein oxidation.](#)

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[Effect of winemaking practices on color indexes and selected bioactive phenolics of aglianico wine.](#)

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Carnitine

[Effect of L-carnitine supplementation on secondary hyperparathyroidism and bone metabolism in hemodialyzed patients.](#)

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[\[Correlation of free L-carnitine level with accessory gland markers and its clinical significance\]](#)

Li K, Li W, Huang YF, Shang XJ. Zhonghua Nan Ke Xue. 2007 Jun;13(6):507-10. Chinese.

[A combination of caffeine, arginine, soy isoflavones, and L-carnitine enhances both lipolysis and fatty acid oxidation in 3T3-L1 and HepG2 cells in vitro and in KK mice in vivo.](#)

Murosaki S, Lee TR, Muroyama K, Shin ES, Cho SY, Yamamoto Y, Lee SJ. J Nutr. 2007 Oct;137(10):2252-7.

Creatine

[Creatine and other supplements.](#)

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CoQ10

[Reduced mitochondrial coenzyme Q10 levels in HepG2 cells treated with high-dose simvastatin: a possible role in statin-induced hepatotoxicity?](#)

Tavintharan S, Ong CN, Jeyaseelan K, Sivakumar M, Lim SC, Sum CF. Toxicol Appl Pharmacol. 2007 Sep 1;223(2):173-9. Epub 2007 May 26.

[Safety assessment of PureSorb-Q40 in healthy subjects and serum coenzyme Q10 level in excessive dosing.](#)

Nuku K, Matsuoka Y, Yamagishi T, Miyawaki H, Sato K. J Nutr Sci Vitaminol (Tokyo). 2007 Jun;53(3):198-206.

[Bioenergetic and antioxidant properties of coenzyme Q: recent developments.](#)

Littarru GP, Tiano L. Mol Biotechnol. 2007 Sep;37(1):31-7. Review.

Minerals

[Zinc supplementation prevents the increase of transaminase in chronic hepatitis C patients during combination therapy with pegylated interferon alpha-2b and ribavirin.](#)

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[Effect of nickel exposure on peripheral tissues: role of oxidative stress in toxicity and possible protection by ascorbic acid.](#)

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[Human atrial natriuretic peptide and nicorandil as adjuncts to reperfusion treatment for acute myocardial infarction \(J-WIND\): two randomised trials.](#)

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[Selenium supplementation prevents the increase in atherogenic electronegative LDL \(LDL minus\) in the postprandial phase.](#)

Natella F, Fidale M, Tubaro F, Ursini F, Scaccini C. Nutr Metab Cardiovasc Dis. 2007 Nov;17(9):649-56. Epub 2007 Feb 15.

Miscellaneous

[Dietary intake of free-living elderly in northern Greece.](#)

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J Nutr Elder. 2006;26(1-2):131-46.

[The effect of daily consumption of probiotic and conventional yoghurt on oxidant and anti-oxidant parameters in plasma of young healthy women.](#)

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Int J Vitam Nutr Res. 2007 Mar;77(2):79-88.

[Genome-wide association with select biomarker traits in the Framingham Heart Study.](#)

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[Beneficial effects of probiotic bacteria isolated from breast milk.](#)

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Br J Nutr. 2007 Oct;98 Suppl 1:S96-100.

PUFAs

[Fatty acid composition in postmortem brains of people who completed suicide.](#)

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[Analysis of long-chain omega-3 fatty acid content in fish-oil supplements.](#)

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[Duration of pregnancy in relation to fish oil supplementation and habitual fish intake: a randomised clinical trial with fish oil.](#)

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[A valid semiquantitative food frequency questionnaire to measure fish consumption.](#)

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[Position of the American Dietetic Association and Dietitians of Canada: dietary fatty acids.](#)

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[Trans fatty acids in membranes: the free radical path.](#)

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[Effect of n-3 fatty acids on nutritional status and inflammatory markers in haemodialysis patients.](#)

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[The role of consumption of alpha-linolenic, eicosapentaenoic and docosahexaenoic acids in human metabolic syndrome and type 2 diabetes--a mini-review.](#)

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[Nursing of malnourished children with emphasis on polyunsaturated fatty acids.](#)

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