

International Publications

Highly cited researcher. Inclusion in the list of international researchers displaying the greatest numbers of report officially designated by Essential Science Indicators as Highly Cited Papers, ranking among the top 1% most cited for their subject field and year of publication, earning the mark of exceptional impact. Source Thomson Reuters (www.highlycited.com)

Top Five Articles

Serafini M., Bugianesi R, Maiani M, Valtueña S, De Santis S & Crozier A. Plasma antioxidants from chocolate. *Nature* 2003; 424:1013.

Serafini M., & Crozier A. Milk and absorption of dietary flavonols. *Nature* 2003; 426:788.

Serafini M., Bellocco R., Wolk A., & Ekström AM. Total Antioxidant Potential of Fruit and Vegetables and risk of gastric cancer. *Gastroenterology* 2003;123:985-991. **The Cover of the Journal was dedicated to the publication.**

Serafini M., Ghiselli A. & Ferro-Luzzi A.: *In vivo antioxidant effect of green and black tea in man.* *Eur J Clin Nutr* 1996; 50:28-32. *** ** Highest number of citations on **EJCN (1996 to 2002) and “highly cited paper” in clinical medicine (top 1%) secondo ISI Essential Science Indicators.** (*European Journal of Clinical Nutrition* 2002; **56, 793-795**).

Serafini M., Ghiselli A., Ferro-Luzzi A. Red wine, tea, and antioxidants. *The Lancet* 1994; 344:626.

Other Publications

Ghiselli A., **Serafini M.**, & Ferro-Luzzi A.: New approaches for measuring plasma or serum antioxidant capacity: a methodological note. *Free Radical Biology and Medicine* 1994;16:135.

Ghiselli A., **Serafini M.**, Maiani G., Azzini E., & Ferro-Luzzi A.: A fluorescence-based method for measuring total plasma antioxidant capability. *Free Radical Biology and Medicine* 1995;18: 29-36.

Ferro-Luzzi A., **Serafini M.**: Polyphenols in our diet: Do they matter?. *Nutrition* 11:1995:399-400.

Maiani G., **Serafini M.**, Salucci M., Azzini E. Ferro-Luzzi A.: Application of a new high-performance liquid chromatographic method for measuring selected polyphenols in

human plasma. *Journal of Chromatography B: Biomedical Application* 1997:692,311-317.

Pappalardo G., Maiani M., Mobarhan S., Guadalaxara A., Azzini E., Raguzzini A., Salucci M., **Serafini M.**, Trifero M., Illomei G., Ferro-Luzzi A. Plasma (carotenoids, retinol, α -tocopherol) and tissue (carotenoids) levels after supplementation with β -carotene in subjects with precancerous and cancerous lesions of sigmoid colon. *European Journal of Clinical Nutrition* 1997:51,661-666.

Ghiselli A. & **Serafini M.** Measurements of the antioxidant capacity in human plasma. *Biofactors* 1997:6,451-453.

Serafini M., Maiani G. & Ferro-Luzzi A.: Effect of ethanol on red wine tannin-protein (BSA) interactions. *Journal of Agricultural and Food Chemistry* 1997:45,3148-3151.

Ticca M., **Serafini M.** Wine, health and dietary modulation of oxidative stress: an up-date. *Alcologia* 1997:9,185-189.

Serafini M., Maiani G. & Ferro-Luzzi A. Alcohol-free red wine enhances plasma antioxidant capacity in humans. *Journal of Nutrition* 1998:128,1003-1007.

Ghiselli A. & **Serafini M.** Diet and total plasma antioxidant capacity in humans. *Médecine Biologie Environnement* 1998:26,171-175.

Serafini M., Wu D, Beharka A, Martin KR, Meydani M, Meydani SN. Effect of different forms of vitamin E (E) on prostaglandin (PG)E2 production and in vitro T cell proliferation of old mice. *FASEB Journal* 1998:12(5).

Wu D., Meydani M., Beharka A., **Serafini M.**, Martin KR. & SN Meydani. In vitro supplementation with different tocopherol homologues can affect the function of immune cells in old mice. *Free Radical Biology and Medicine* 2000:28,643-651.

Serafini M. Dietary vitamin E and T cell-mediated function in the elderly: effectiveness and mechanism of action. *International Journal of Developmental Neuroscience* 2000:18,401-410.

Ekström AM., **Serafini M.**, Nyrén O., Hansson L-E., Ye W. & Wolk A. Dietary antioxidant intake and the risk of cardia cancer and non-cardia cancer of the intestinal and diffuse types - a population-based case-control study in Sweden. *International Journal of Cancer* 2000:87,133-140.

Bugianesi R., **Serafini M.**, Simone F., Wu D., Meydani S., Ferro-Luzzi A., Azzini E. & Maiani G. High-performance liquid chromatography with coulometric electrode array detector for the determination of quercetin levels in cells of the immune system. *Analytical Biochemistry* 2000:284,296-300.

Serafini M., Laranhjinha JAN., Almeida L. & Maiani G. Inhibition of human LDL lipid peroxidation by phenol-rich beverages and their impact on plasma Total Antioxidant Capacity (TRAP) in humans. *The Journal of Nutritional Biochemistry* 2000:11,585-590.

Ghiselli A., **Serafini M.**, Natella F., & Scaccini C. Total antioxidant capacity as a tool to assess redox status:critical view and experimental data. *Free Radical Biology and Medicine* 2000:29,1106-1114.

Beharka A., Wu D., **Serafini M.**, & SN Meydani. Mechanism of vitamin E inhibition of cyclooxygenase activity in macrophages from old mice: role of peroxynitrite. *Free Radical Biology and Medicine* 2002:32,503-511.

Serafini M., Bugianesi R., Salucci M., & Maiani G., Ferro-Luzzi A., Azzini E. Effect of acute ingestion of fresh and stored lettuce on plasma total antioxidant capacity and antioxidant levels in humans. *British Journal of Nutrition* 2002:88,615-623.

Del Rio D., **Serafini M.**, Pellegrini, N. Selected methodologies to assess oxidative/antioxidant status in vivo: a critical review. *Nutrition Metabolism and Cardiovascular Diseases* 2002:12,343-351.

Del Rio D., Pellegrini N., Colombi B., Bianchi M., **Serafini M.**, Torta F., Tegoni M., Musci M & Brighenti F. A rapid fluorimetric *method to detect total plasma malondialdehyde with mild derivatization conditions*. *Clinical Chemistry* 2003:49,690-693.

Roukos DH, Paraskevaidis E, Agnantis NJ, Kappas AM, Ekström AM, Wolk A, Bellocco R, **Serafini M.** (2003). Fruit and Vegetables: do they protect from gastric cancer. *Gastroenterology* 2003:124,2006-2007.

Serafini M. Health promoting effect of fruit and vegetables consumption: mechanism of action in humans. *J of Applied Cosmetology* 2003:2,109-116.

Pellegrini N, **Serafini M.**, Colombi B, Del Rio D, Salvatore S, Bianchi M & Brighenti F. Total antioxidant capacity of plant foods, beverages and oils consumed in Italy assessed by three different in vitro assays. *J of Nutrition* 2003:133,2812-2819.

Serafini M. Polyphenols from tea and cocoa: ancient ingredients for human health. *Agro-food industry high tech*. March-April 2004.

Peluso I, **Serafini M.**, Campolongo P, Palmery M. Effect on rat arterial blood pressure of chemically generated peroxy radicals and protection by antioxidants. *J Nutritional Biochemistry* 2004: 15, 323-327.

Serafini M. & Del Rio D. Understanding the association between dietary antioxidants, red-ox status and disease: is the Total Antioxidant Capacity the right tool?. *Redox report* 2004:9,145-152.

Serafini M, Del Rio D, Crozier A, Benzie I. Effect of changes in fruit and vegetable dietary intake on plasma antioxidant defences in human. *American Journal Clinical Nutrition* 2005;81,531-532.

Serafini, M., Mallozzi, C., Di Stasi, A.M.M., Minetti, M. (2005) Peroxynitrite-dependent upregulation of *Src* kinases in red blood cells. Strategies to study the activation mechanisms. *Methods in Enzymology*, 2005:396,215-229.

Brighenti, F, Valtuena S, Pellegrini N, Ardigò D, Del Rio D, Salvatore S, Piatti PM, **Serafini, M**, Zavaroni I. Total antioxidant capacity of the diet is inversely and independently related to plasma concentration of high sensitivity C-reactive protein in adult Italian subjects. *British Journal Nutrition* 2005;93,619-625.

Zini A, Del Rio D, Stewart AJ, Mandrioli J, Merelli E, Sola P, Nichelli P, **Serafini, M**, Brighenti F, Edwards CA, Crozier A. Do flavan-3-ols from green tea reach the human brain? *Nutritional Neurosciences* 2006;9,57-61.

Serafini, M. (2006) Back to the origin of the 'antioxidant hypothesis': the lost role of the antioxidant network in disease prevention. *Journal Science Food Agriculture* 2006;86,1989-1991.

Nicoletta Pellegrini N, **Serafini M**, Colombi M, Del Rio D, Salvatore S, Bianchi M, Brighenti F. Total antioxidant capacity of spices, dried fruits, nuts, pulses, cereals and sweets consumed in Italy assessed by three different in vitro assays. *Molecular Nutrition & Food Research* 2006;50,1030-1038.

Serafini, M. Valencia D. V. Spera, G. Pellegrini, N. Redox molecules and cancer prevention: the importance of understanding the role of the antioxidant network. *Nutrition and Cancer* 2006;56,232-240.

Serafini, M. The role of antioxidants in disease prevention. *Medicine* 2006;34,533-535.

Flammer JA, Hermann F, Sudano I, Lukas Spieker I, Matthias Hermann M, Karen A. Cooper KA, **Serafini M**, Thomas F. Lüscher TF, Ruschitzka F, Noll G and Corti R. *Circulation* 2007;116,2376-82.

Rautanen S, **Serafini, M**, Morgenstern R, Prior RL, Wolk A. The validity and reproducibility of the food-frequency questionnaire-based total antioxidant capacity estimates in Swedish women. *AJCN* 2008;87,1247-1253.

Mullen W, Edwards CA, **Serafini M**, Crozier A. Bioavailability of pelargonidin-3-O-glucoside and its metabolites in humans following the ingestion of strawberries with and without cream. *J Agric Food Chem* 2008;56,713-9.

Koutelidakis AE, Argiri K, **Serafini M**, Proestos C, Komaitis M, Pecorari M, Kapsokefalou M. Green tea, white tea, and *Pelargonium purpureum* increase the antioxidant capacity of plasma and some organs in mice. *Nutrition* 2009;25,453-8.

Serafini, M, Testa MF. Redox ingredients for oxidative stress prevention: the unexplored potentiality of coffee. *Clinics in Dermatology* 2009;27,225-229.

Serafini M, Testa MF, Villaño D, Pecorari M, van Wieren K, Azzini E, Brambilla A, Maiani G. Antioxidant activity of blueberry fruit is impaired by association with milk. *Free Radic Biol Med* 2009;46,769-774.

Pellegrini N, Miglio C, Del Rio D, Salvatore S, **Serafini M**, Brighenti F. Effect of domestic cooking methods on the total antioxidant capacity of vegetables. *Int J Food Sci Nutr* 2009: 2,1-11.

Visioli F, Bernaert H, Corti R, Ferri C, Heptinstall S, Molinari E, Poli A, **Serafini M**, Smit HJ, Vinson JA, Violi F, Paoletti R. *Crit Rev Food Sci Nutr* 2009;49,299-312.

Mullen W, Borges G, Donovan JL, Edwards CA, **Serafini M**, Lean MJ, Crozier A. Milk decrease urinary excretion but not plasma pharmacokinetics of cocoa flavan-3-ol metabolites in humans. *AJCN* 2009;89:1784-91.

Stalmach A, Mullen W, Pecorari M, **Serafini M**, Crozier A. Bioavailability of C-linked dihydrochalcone and flavanone glucosides in humans following ingestion of unfermented and fermented Rooibos tea. *JAFAC* 2009;57,7104-11.

Calder PC, Albers R, Antoine J-M, Blum S, Bourdet-Sicard R, Ferns GA, Folkerts G, Friedmann PS, Frost GS, Guarner F, Lovik M, Macfarlane S, Meyer PD, Rabet LM, **Serafini M**, van Eden W, van Loo J, Vas Dias W, Videry S, Winklhofer-Roob, Zhao J. Inflammatory disease processes and interactions with nutrition. *BJN* 2009;101,S1-45.

Tudor M, Havranek J, **Serafini M**. Dairy foods and body weight management. *Mljekarstvo* 2009;59,88-95.

Wieten L, van der Zee R, Goedemans R, Sijtsma J, **Serafini M**, Lubsen HN, van Eden W, Broere F. Hsp70 expression and induction as a readout for detection of immune modulatory components in food. *Cell Stress and Chaperones* 2010;15,25-37.

Stalmach A, Troufflard S, **Serafini M**, Crozier A. Absorption, metabolism and excretion of Choladi green tea flavan-3-ols by humans. *Mol Nutr Food Res* 2009;53,S44-53.

Pecorari M, Villaño D, Testa MF, Schmid M, **Serafini M**. Biomarkers of antioxidant status following ingestion of green teas at different polyphenol concentrations and antioxidant capacity in human volunteers. *Mol Nutr Food Res*. 2010;54,S278-83.

Serafini M, Peluso I, Raguzzini A. Flavonoids as anti-inflammatory agents. *Proc Nutr Soc*. 2010 69(3):273-8.

Karlsen A, Paur I, Bøhn SK, Sakhi AK, Borge GI, **Serafini M**, Erlund I, Laake P, Tonstad S, Blomhoff R. Bilberry juice modulates plasma concentration of NF-kappaB

related inflammatory markers in subjects at increased risk of CVD. *Eur J Nutr.* 2010;49,345-55.

Koutelidakis A. E., **Serafini M**, Komaitis M and Kapsokafalou M. Oxidative activity of some iron compounds on colon tissue homogenates from mice after administration of green tea, white tea and Pelargonium purpureum. *Food Chemistry* 2010;120,895–901.

Villaño, D., et al. 2010. Unfermented and fermented rooibos teas (*Aspalathus linearis*) increase plasma total antioxidant capacity in healthy humans. *Food Chemistry* 2010;123,679-683.

Serafini M, Miglio C, Peluso I, Petrosino T. Modulation of plasma non enzymatic antioxidant capacity (NEAC) by plant foods: the role of polyphenols. *Curr Top Med Chem* 2011;11,1821-46.

Hollman PC, Cassidy A, Comte B, Heinonen M, Richelle M, Richling E, **Serafini M**, Scalbert A, Sies H, Vidry S. The biological relevance of direct antioxidant effects of polyphenols for cardiovascular health in humans is not established. *J Nutr* 2011;141,989S-1009S.

Ekström AM, **Serafini M**, Nyrén O, Wolk A, Bosetti C, Bellocco R. Dietary quercetin intake and risk of gastric cancer: results from a population-based study in Sweden. *Ann Oncol* 2011;22(2),438-43.

Karlsen A, Svendsen M, Seljeflot I, Sommernes MA, Sexton J, Brevik A, Erlund I, **Serafini M**. et al. Compliance, tolerability and safety of two antioxidant-rich diets: a randomised controlled trial in male smokers. *Br J Nutr.* 2011;106,557-71.

Serafini M, Jakszyn P, Luján L, Agudo A, Bueno-de-Mesquita HB et al. Dietary total antioxidant capacity and gastric cancer risk in the European prospective investigation into cancer and nutrition study. *International Journal of Cancer* 2012;131,544-554.

Lettieri-Barbato D, Villano DV, Beheydt B, Guadagni F, Throggh I, **Serafini M**. Effect of ingestion of dark chocolates with similar lipid composition and different cocoa content on antioxidant and lipid status in healthy humans. *Food Chemistry* 2012;132(3),1305-1310.

Villano DV, Lettieri-Barbato D, Guadagni F, Schmid M, **Serafini M**. Effect of acute consumption of oolong tea on antioxidant parameters in healthy individuals. *Food Chemistry* 2012;132(4),2102-2106.

Peluso I, Raguzzini A, Villano DV, Cesqui E, Toti E, Catasta G, **Serafini M**. High fat meal increase of IL-17 is prevented by ingestion of mixed fruit juice drink in healthy overweight subjects. *Curr Pharmacol Design* 2012;18(1),85-90.

Di Giuseppe R, Arcari A, **Serafini M**, Di Castelnuovo A, Zito F et al. Total Dietary Antioxidant Capacity and Lung Function in an Italian population: a favorable role in

premenopausal/never smoker women. *European Journal Clinical Nutrition* 2012;66(1),61-68.

Flammer AJ., Sudano I., Wolfrum M., Thomas R., Enseleit F., Periat D., Kaiser P., Hirt A., Hermann M., **Serafini M.**, Leveques A., Luscher TF., Ruschitza F., Noll G., Corti R. Cardiovascular effects of flavanol-rich chocolate in patients with heart failure. *Eur Heart J* 2012;33,2172-2180.

Peluso I, Morabito G, Riondino S, La Farina F, **Serafini M.** Lymphocytes as internal standard in oxidative burst analysis by cytometry: a new data analysis approach. *J Immunol Methods* 2013;390,113-120.

Miglio C, Peluso I, Raguzzini A, Villano DV, Cesqui E, Catasta G, Toti E, **Serafini M.** Antioxidant and inflammatory response following high-fat meal consumption in overweight subjects. *European Journal Nutrition* 2013;52,1107-14.

Serafini M, Morabito G. The Role of Polyphenols in the Modulation of Plasma Non-Enzymatic Antioxidant Capacity (NEAC). *Int J Vitam Nutr Res* 2012;82(3),228-32.

Peluso I, Morabito G, Urban L, Ioannone F, **Serafini M.** Oxidative stress in atherosclerosis development: the central role of LDL and oxidative burst. *Endocr Metab Immune Disord Drug Targets* 2012;12,351-60.

Peluso I, Raguzzini A, Serafini M. Effect of flavonoids on circulating levels of TNF- α and IL-6 in humans: A systematic review and meta-analysis. *Mol Nutr Food Res* 2013;57,784-801.

Magrone T, Perez de Heredia F, Jirillo E, Morabito G, Marcos A, **Serafini M.** Functional foods and nutraceuticals as therapeutic tools for the treatment of diet-related diseases. *Can J Physiol Pharmacol* 2013;91,387-96.

Zamora-Ros R, **Serafini M.**, Estruch R, Lamuela-Raventós RM, Martínez-González MA, Salas-Salvadó J, Fiol M, Lapetra J, Arós F, Covas MI, Andres-Lacueva C; on behalf of the PREDIMED Study Investigators. Mediterranean diet and non enzymatic antioxidant capacity in the PREDIMED study: Evidence for a mechanism of antioxidant tuning. *Nutrition, Metabolism & Cardiovascular Disease* 2013;23(12):1167-74.

Lettieri-Barbato D, Tomei F, Sancini A, Morabito G, **Serafini M.** Effect of plant foods and beverages on plasma non-enzymatic antioxidant capacity in human subjects: a meta-analysis. *Br J Nutr* 2013;109,1544-56.

Zamora-Ros R, Fedirko V, Trichopoulou A, González CA, Bamia C, Trepo E, Nöthlings U, Duarte-Salles T, **Serafini M.**, Bredsdorff L, Overvad K, Tjønneland A, Halkjaer J, Fagherazzi G, Perquier F, Boutron-Ruault MC, Katzke V, Lukanova A, Floegel A, Boeing H, Lagiou P, Trichopoulos D, Saieva C, Agnoli C, Mattiello A, Tumino R,

Sacerdote C, Bueno-de-Mesquita HB, Peeters PM, Weiderpass E, Engeset D, Skeie G, Argüelles MV, Molina-Montes E, Dorransoro M, Tormo MJ, Ardanaz E, Ericson U, Sonestedt E, Sund M, Landberg R, Khaw KT, Wareham NJ, Crowe FL, Riboli E, Jenab M. Dietary flavonoid, lignan and antioxidant capacity and risk of hepatocellular carcinoma in the European Prospective Investigation into Cancer and Nutrition (EPIC) study. *Int J Cancer* 2013;133(10),2429-43.

La Vecchia C., Decarli A., **Serafini M.**, Parpinel M., Bellocco R., Galeone C., Bosetti C., Zucchetto A., Polesel J., Lagiou P., Negri E., Rossi M. Dietary total antioxidant capacity and colorectal cancer: a large case-control study in Italy. *Int J Cancer* 2013;133(6),1447-51.

Peluso I, Villano DV, Roberts SA, Cesqui E, Raguzzini A, Borges G, Crozier A, Catasta G, Toti E, **Serafini M.** Consumption of Mixed Fruit-Juice Drink and Vitamin C Reduces Postprandial Stress Induced By A High Fat Meal In Healthy Overweight Subjects. *Curr Pharmacol Design* 2014;20(6)1020-4.

Miglio C, Peluso I, Raguzzini A, Villaño DV, Cesqui E, Catasta G, Toti E, **Serafini M.** Fruit juice drinks prevent endogenous antioxidant response to high-fat meal ingestion. *Br J Nutr* 2014;111,294-300.

Petrosino T & **Serafini M.** Antioxidant modulation of F2-isoprostanes in humans: a systematic review. *Critical Reviews Food Science and Nutrition* 2014;54(9)1202-21.

Petrosino T & **Serafini M.** Matrix effect in F2-isoprostanes quantification by HPLC-MS/MS: a validated method for analysis of iPF2 α -III and iPF2 α -VI in human urine. *J Chromatogr B Anal Techn Biomed Life Sci* 2014;965:100-106.

Fabbrini E, **Serafini M.**, Colic Baric I, Hazen SL, Klein S. Effect of plasma uric acid on antioxidant capacity, oxidative stress, and insulin sensitivity in obese subjects. *Diabetes*. 2014; 63(3),976-81.

Rossi M, Praud D, Monzio Compagnoni M, Bellocco R, **Serafini M.**, Parpinel M, La Vecchia C, Tavani A. Dietary non-enzymatic antioxidant capacity and the risk of myocardial infarction: a case-control study in Italy. *Nutr Metab Cardiovasc Dis*. 2014 Nov;24(11):1246-51.

Fabbrini E, **Serafini M.**, Klein S. Response to Comment on Fabbrini *et al.* Effect of plasma uric acid on antioxidant capacity, oxidative stress, and insulin sensitivity in obese subjects. *Diabetes*. 2014 Sep;63(9) e19.

Morabito G, Kucan P, **Serafini M.** Prevention of Postprandial Metabolic Stress in Humans: Role of Fruit-Derived Products. *Endocr Metab Immune Disord Drug Targets* 2015;15(1):46-53.

Peluso I., Miglio C., Morabito G., Ioannone F., **Serafini M.** Flavonoids and immune function in human: a systematic review. *Critical Reviews Food Science and Nutrition* 2015; 55(3):383-395.

F. Ioannone, C.D. Di Mattia, M. De Gregorio, M. Sergi, **M. Serafini**, G. Sacchetti. Flavanols, proanthocyanidins and antioxidant activity changes during cocoa (*Theobroma cacao* L.) roasting as affected by temperature and time of processing. *Food Chemistry* 2015:174,256-262.

Praud D, Parpinel M, **Serafini M**, *et al.* Non-enzymatic antioxidant capacity and risk of gastric cancer. *Cancer Epidemiol* 2015:39(3),340-5.

Costanzo S, De Curtis A. di Niro V *et al.* Postoperative atrial fibrillation and total dietary antioxidant capacity in patients undergoing cardiac surgery: The Polyphemus Observational Study. *J Thorac Cardiovasc Surg* 2015:149(4),1175-1182.

Peluso I, Palmery M, **Serafini M**. Association of flavonoid-rich foods and statins in the management of hypercholesterolemia: a dangerous or helpful combinations? *Curr Drug Metab* 2015: Oct 15 [Epub ahead of print].

Peluso I, Palmery M, **Serafini M**. Effect of cocoa products and flavanols on platelet aggregation in humans: a systematic review. *Food Function* 2015:6(7),2128-34