

9. BIBLIOGRAFIA

- Abdel-Aal, M.; Young, J. C.; Rabalski, I.; Hucl, P.; Fregeau-Reid, J. (2007). Identification and quantification of seed carotenoids in selected wheat species. *J. Agric. Food Chem.*, 55, 787-794.
- Adam, A.; Crespy, V.; Levrat-Verny, M.A.; Leenhardt, F.; Leuillet, M.; Demigne, C.; Remesy, C. (2002). The Bioavailability of Ferulic Acid Is Governed Primarily by the Food Matrix Rather than Its Metabolism in Intestine and Liver in Rats. *J. Nutr.*, 132, 1962-1968.
- Adom, K. K.; Liu, R. H. (2002). Antioxidant activity of grains. *J. Agric. Food Chem.*, 50, 6182-6187.
- Adom, K. K.; Liu, R. H.; Sorrells M. E. (2003). Phytochemical profiles and antioxidant activity of wheat varieties. *J. Agric. Food Chem.*, 51, 7825-7834.
- Adom, K. K.; Sorrells, M. E.; Liu, R. H. (2005). Phytochemicals and Antioxidant Activity of Milled Fractions of Different Wheat Varieties. *J. Agric. Food Chem.*, 53, 2297-2306.
- Aguglia, L. (2009). La filiera corta: una opportunità per agricoltori e consumatori. *Agriregionieuropa*, anno 5, n.17.
- Andlauer, W.; Furst, P. (1999). Does cereal reduce the risk of cancer? *Cereal Food World*, 44, 76-78.
- Asami, D. K.; Hong, Y.-J., Barrett, D. M., Mitchell, A. E. (2003). Comparison of the total phenolic and ascorbic acid content of freeze-dried and air-dried marionberry, strawberry, and corn using conventional, organic, and sustainable agricultural practices. *J. Agric. Food Chem.*, 51, 1237-1241.
- Barbanti, D. (2006). Tecnologie di produzione e di conservazione delle paste alimentari. Processi della tecnologia alimentare. Università degli studi di Parma, 1-13.
- Benbrook, C. M. (2005). Elevating antioxidant levels in food through organic farming and food processing. The Organic Center.
(<http://www.organic-center.org/tocpdfs/AntioxidantReport.pdf>).
- Beta, T.; Nam, S.; Dexter, J. E., Sarpistein, H. D. (2005). Phenolic content and antioxidant activity of pearled wheat and roller-milled fractions. *Cereal Chem.*, 82 (4), 390-393.
- Bloksma, J.; Northolt, M.; Huber, M.; van der Burgt, G.-J.; van de Vijver, L.. (2007). A new food quality concept based on life processes. *Hanbook*, 74-94.
- Bonciarelli, F.; Bonciarelli, U. (2001). Coltivazioni erbacee. *Calderini Edagricole*, p.492.

- Bourn, D.; Prescott, J. (2002). A comparison of the nutritional value, sensory qualities, and food safety of organically and conventionally produced foods. *Critical Reviews in Food Science and Nutrition*, 42 (1), 1-34.
- Brandt, K.; Molgaard, J. P. (2001). Organic agriculture: does it enhance or reduce the nutritional value of plant foods?. *J. Sci. Food Agric.*, 81, 924-931.
- Bruckner, P. L.; Habernicht, D.; Carlson, G. R.; Wichman, D. M.; Talbert, L. E. (2001). Comparative Bread Quality of White Flour and Whole Grain Flour for Hard Red Spring and Winter Wheat. *Crop Sci.*, 41, 1917–1920.
- Brunori, G. (2009). I mercati del biologico: strategie aziendali e politiche di intervento. *Stati generali del biologico*, 103-121.
- Burk, R. F.; Solomons, N. W. (1985). Trace elements and vitamins and bioavailability as related to wheat and wheat foods. *The American Journal of Clinical Nutrition*, 41, 1091-1102.
- Cabras, P.; Martelli, A. (2004). *Chimica degli alimenti*. Ed. Piccin-Nuova Libreria, p.751.
- Cahtenoud, L.; La Vecchia, C.; Franceschi, S.; Tavani, A.; Jacobs, d. R.; Parpinel, M. T.; Soler, M.; Negri, E. (1999). Refined cereal intake and risk of selected cancers in Italy. *Am. J. Clin. Nutr.*, 70, 1107-10.
- Cappelli, P.; Vannucchi, V. (2000). *Chimica degli alimenti, conservazione e trasformazioni*. Zanichelli, p. 667.
- Caramanico, R.; Ormoli, L.; Masserani, V.; Vaccino, P. (2010). Grano tenero 2010: qualità mediocre. *L'Informatore Agrario*, 39, 63-65.
- Carcea M. (2002). Valutazione dell'impatto Valutazione dell'impatto delle tecniche di produzione sulla qualità tecnologica e nutrizionale di prodotti biologici della filiera dei cereali. In: Rapporto sul Progetto finalizzato MIPAF: Determinanti di qualità dei prodotti dell'agricoltura biologica. Bologna 14 settembre 2002, 44-58.
- Carcea, M.; Salvatorelli, S.; Turfani, V.; Mellara, F. (2006). Influence of growing conditions on the technological performance of bread wheat (*Triticum aestivum* L.). *International Journal of Food Science and Technology*, 41 (Supplement 2), 102–107.
- Casagrande, M.; David, C.; Valantin-Morison, M.; Makowski, D.; Jeuffroy, M.-H. (2009). Factors limiting the grain protein content of organic winter wheat in south-eastern France: a mixed-model approach. *Agron. Sustain. Dev.*, 29, 565–574.

Corona N. (2009). Pesticidi nel piatto; Legambiente.

Corticelli, C.; Ciuffoli, S.; Veronesi, A.; Vecchi, G. (2004). Cereali biologici: mercato e valorizzazione della filiera, p.42-44.
(http://www.ermesagricoltura.it/var/portale_agricoltura/storage/file/ra0402042s_1244543820.pdf)

Cukelj, N.; Novotni, D.; Curic, D. (2010). Antioxidant properties of whole grain cereals. Croatian Journal of Food Technology, Biotechnology and Nutrition, 5, 18-23.

De Filippis, F. (2008). Prezzi agricoli ed emergenza alimentare: Cause, effetti, implicazioni per le politiche. Ed. Tellus, Atti del workshop tenuto a Palazzo Rospigliosi. Roma, 8 luglio 2008.

Delate, K. (2003). Fundamentals of organic agriculture. Iowa State University,
(<http://www.extension.iastate.edu/Publications/PM1880.pdf>)

Dykes, L.; Rooney, L. W. (2007). Phenolic compounds in cereal grains and their health benefits. Cereal Food World, 52, 105-111.

Emmens, J. (2003). Considerations for conversion to organic production for wheat-based farming systems. FAO.
(http://www.fao.org/ag/AGP/agpc/doc/publicat/organic_wheat/orgwheat_emmens_e.pdf)

Fan, M. S.; Zhao, F. J., Fairweather-Tait, S. J.; Poulton, P. R.; Dunham, S. J.; Steve, P. (2008). Evidence of decreasing mineral density in wheat grain over the last 160 years. Journal of Trace Elements in Medicine and Biology, 22, 315-324.

Farnworth, C.; Hutchings, J. (2009). Organic Agriculture and Womens' Empowerment. IFOAM.
(http://www.ifoam.org/growing_organic/1_arguments_for_oa/social_justice/pdfs/Gender-Study-090421.pdf)

Ferguson, L. R.; Harris, P. J. (1999). Wheat bran and cancer: The role of dietary fibre. Asia Pacific J. Clin. Nutr., 8, S41-S46.

Ferrante, P. (2006). Contributo ad una migliore conoscenza del genoma e del proteoma di endosperma di frumento attraverso espressione eterologa e studi funzionali di singoli polipeptidi. Tesi di laurea di dottorato, Univ. degli studi della Tuscia, 1-134.

Frascarelli, A. (2010). Grano tenero: prezzi in ripresa nel medio termine. Inf. Agrario, 31, 49-51.

Haglund, A.; Johansson, L.; Dahlstedt, L. (1998). Sensory Evaluation of Wholemeal Bread from Ecologically and Conventionally Grown Wheat. Journal of Cereal Science, 27, 199-207.

Harris, P. L. (1949). Quaife, M. L.; Swanson, W. J. Vitamin E content of foods. The Journal of Nutrition, 367-381.

HEALTHGRAIN (2010). Whole grain definition.
(<http://www.healthgrain.eu/pub/background.php>)

IFOAM, (2011). The IFOAM Organic Guarantee System.
(http://www.ifoam.org/about_ifoam/standards/OGS-Brochure-2011_EN.pdf)

IFOAM, (2006). Organic Agriculture and Participatory Guarantee Systems.
(http://www.ifoam.org/about_ifoam/standards/pgs/pdfs/IFOAM_PGS_Leaflet_Final_new.pdf)

IFOAM, (2007). Participatory Guarantee Systems, Shared Vision, Shared Ideals.
(http://www.ifoam.org/about_ifoam/standards/pgs/pdfs/IFOAM_PGS_WEB.pdf)

IFOAM, (2007). Organic Agriculture's Role in Countering Climate Change.
(http://www.ifoam.org/growing_organic/1_arguments_for_oa/environmental_benefits/pdfs/climate_change_english.pdf)

IFOAM, (2005). Principi dell'agricoltura biologica. Preambolo.
(http://www.ifoam.org/about_ifoam/pdfs/POA_folder_Italian.pdf)

Ismea, (2011). Focus cereali.
(<http://www.ismea.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/5984>)

Istat, (2011). Le intenzioni di semina delle principali colture erbacee: Annata agraria 2010-2011,
(http://www3.istat.it/salastampa/comunicati/non_calendario/20110211_00/testointegrale20110211.pdf)

Jacobs, D. R.; Meyer, K. A.; Kushi, L. H.; Folsom, A. R. (1998). Whole-grain intake may reduce the risk of ischemic heart disease death in postmenopausal women: the Iowa Women's Health Study. AM. J. Clin. Nutr., 68, 248-57.

Jacobs, R. D.; Gallaher, D. D. (2004). Whole grain intake and cardiovascular disease: A review. Current Atherosclerosis Reports, 6, 415-423.

Jacobs, R. D.; Meyer, K. A.; Kushi, L. H., Folsom, A. R. (1999). Is whole grain intake associated with reduced total and cause-specific death rates in older women The Iowa women's health study. American journal of Public Health, vol. 89, n. 3, 322-329.

Kampa, M.; Alexaki, V. I.; Notas, G.; Nifli, A. P.; Nistikaki, A.; Hatzoglou, A.; Bakogeorgou, E.; Kouimtoglou, E.; Blekas, G.; Boskou, D.; Gravanis, A.; Castanas, E. (2004). Antiproliferative and apoptotic effects of selective phenolic acids on T47D human breast cancer cells: potential mechanisms of action. *Breast Cancer Res.* 6, R63-R74.

- Kim, K.-H.; Tsao, R.; Yang, R.; Cui, S. W. (2006). Phenolic acid profiles and antioxidant activities of wheat bran extracts and the effect of hydrolysis conditions. *Food Chemistry*, 95, 466–473.
- Koechlin, F. (2008). Genetic engineering vs. organic farming. IFOAM. (http://www.ifoam.org/pdfs/GMO_brochure_web.pdf)
- Koh-Banerjee, P.; Franz, M.; Sampson, L.; Liu, S.; Jacobs, D. R.; Spiegelman, D.; Willet, W.; Rimm, E. (2004). Changes in whole-grain, bran, and cereal fiber consumption in relation to 8-y weight gain among men. *Am. J. Clin. Nutr.*, 80, 1237-45.
- Krejčířová, L.; Capouchová, I.; Petr, J.; Bicanová, E.; Faměra, O. (2007). The effect of organic and conventional growing systems on quality and storage protein composition of winter wheat. *PLANT SOIL ENVIRON.*, 53, 499–505.
- Krejčířová, L.; Capouchová, I.; Petr, J.; Bicanová, E.; Kvapil, R. (2006). Protein composition and quality of winter wheat from organic and conventional farming. *Zemdirbyste / Agriculture*, vol. 93, No. 4, 285-296.
- Kushi, L. H.; Folsom, A. R.; Prineas, R. J.; Mink, P. J.; Wu, J.; Bostick, R. M. (1996). Dietary antioxidant vitamins and death from coronary heart disease in postmenopausal women. *The new England Journal of Medicine*, vol. 334, n.18, 1156-1162.
- Lairon, D. (2009). Nutritional quality and safety of organic food. A review. *Agron. Sustain. Dev.*, 1-9.
- Lempereur, I.; Rouau, X.; Abecassis, J. (1997). Genetic and agronomic variation in arabinoxylan and ferulic acid contents of durum wheat grain and its milling fractions. *Journal of Cereal Science*, 25, 103-110.
- Li, L.; Shewry, P. R.; Ward, J. L. (2008). Phenolic acids in wheat varieties in the HEALTHGRAN diversity screen. *J. Agric. Food Chem.*, 56, 9732-9739.
- Liu, R. H. (2004). Potential Synergy of Phytochemicals in Cancer Prevention: Mechanism of Action. *J. Nutr.*, 134, 3479S–3485S.
- Liyana-pathirana, C. M.; Shahidi, F. (2006). Importance of insoluble-bound phenolics to antioxidant properties of wheat. *J. Agric. Food Chem.*, 54, 1256-1264.
- Lopez, H. W.; Leenhardt, F.; Coudray, C.; Remesy, C. (2002). Minerals and phytic acid interactions: it is a real problem for human nutrition? *International Journal of Food Science and Technology*, 37, 727-739.

- Lumpkin, H. (2005). A comparison of lycopene and other phytochemicals in tomatoes grown under conventional and organic management systems. Technical Bulletin, No. 34. AVRDC publication number 05-623. Shanhua, Taiwan: AVRDC—The World Vegetable Center, 1-48.
- Mader, P.; Hahn, D.; Dubois, D.; Gunst, L.; Alfoldi, T.; Bergmann, H.; Oehme, M.; Amadò, R.; Schneider, H.; Graf, U.; Velimirov, A.; Niggli, U. (2007). Wheat quality in organic and conventional farming: results of a 21 year field experiment. *J. Sci. Food Agric.*, 87, 1826-1835.
- Manach, C.; Scalbert, A.; Morand, C.; Rémésy, C.; Jiménez, L. (2004). Polyphenols: food sources and bioavailability. *Am. J. Clin. Nutr.*, 79, 727-47.
- Mattila, P.; Pihlava, J.-M.; Hellstrom, J. (2005). Contents of Phenolic Acids, Alkyl- and Alkenylresorcinols, and Avenanthramides in Commercial Grain Products. *J. Agric. Food Chem.* 53, 8290-8295.
- Mazzoncini, M.; Belloni, P.; Risaliti, R.; Antichi, D. (2007). Organic vs conventional winter wheat quality and organoleptic bread test. 3th QLIF Congress, Hohenheim, Germany, March 20-23.
- Medaglini, F. (2005). Confronto tra la qualità del frumento convenzionale e biologico determinata secondo metodi convenzionali e alternativi. Tesi di laurea, Facoltà di Agraria di Pisa.
- Meyer, K. A.; Kushi, L. H.; Jacobs, D. R.; Slavin, J.; Sellers, T. A.; Folsom, A. R. (2000). Carbohydrates, dietary fiber, and incident type 2 diabetes in older women. *AM. J. Clin. Nutr.*, 71, 921-930.
- Moore, J.; Liu, J. G.; Zhou, K.; Yu, L. L. (2006). Effects of genotype and environment on the antioxidant properties of hard winter wheat bran. *J. Agric. Food Chem.*, 54, 5313-5322.
- Mpofu, A.; Sapirstein, H. D.; Beta, T. (2006). Genotype and Environmental variation in phenolic content, phenolic acid composition, and antioxidant activity of hard spring wheat. *J. Agric. Food Chem.*, 54, 1265-1270.
- Murphy, K.; Hoagland, L.; Reeves, P.; Jones, S. (2008). Effect of cultivar and soil characteristics on nutritional value in organic and conventional wheat. 16th IFOAM Organic World Congress, Modena, Italy, 16-20 June.
- Murtaugh, M. A.; Jacobs, D. R.; Jacob, B.; Steffen, L. M.; Marquart, L. (2003). Epidemiological support for the protection of whole grains against diabetes. *Proceedings of the Nutrition Society*, 62, 143-149.
- Neacsu, A.; Serban, G.; Tuta, C.; Toncea, I. (2010). Baking quality of wheat cultivars, grown in organic, conventional and low input agricultural systems. *Romania Agricultural Research*, No. 27, 35-42.

- Niggli, U. (2007) History and concepts of food quality and safety in organic food production and processing. In: Cooper, J., Niggli, U. and Leifert, C. (editors): Handbook of organic food quality and safety. Wood-head Publishing Limited, Cambridge, 9-24.
- Olthof, M. R.; Hollman, P. C. H.; Katan, M. B. (2001). Chlorogenic acid and caffeic acid are absorbed in humans. *J. Nutr.*, 131, 66-71.
- Oughton, E.; Ritson, C. (2007). Food consumers and organic agriculture. *Hanbook*, 95-115.
- Panfili, G.; Fratianni, A.; Irano, M. (2003). Normal phase high-performance liquid chromatography method for the determination of tocopherols and tocotrienols in cereals. *J. Agric. Food Chem.*, 51, 3940-3944.
- Pereira, M. A.; Jacobs, D. R.; Pins, J. J.; Raats, S. K.; Gross, M. D.; Slavin, J. L.; Seaquist, E. R. (2002). Effect of whole grains on insulin sensitivity in overweight hyperinsulinemic adults. *AM. J. Clin. Nutr.*, 75, 848-855.
- Piironen, V.; Syvaöja, E.-L.; Varo, P., Salminen, K., Koivistoinen, P. (1986). Tocopherols and tocotrienols in cereal products from Finland. *Cereal Chem*, 68, 78-81.
- Pogna, N.; Gazza, L. (2004). Genotipi di grano duro ad elevate qualità panificatoria: risultati e prospettive. *Istituto Sperimentale per la Cerealicoltura*, 13-30.
- Raicht, R. F.; Cohen, B. I.; Fazzini, E. P.; Sarwal, A. N.; Takahashi M. (1980). Protective Effect of Plant Sterols against Chemically Induced Colon Tumors in Rat. *Cancer Research*, 40, 403-405.
- Raupp, J. (1996). Quality of plant products grown with manure fertilization. *Institute for Biodynamic Research*, vol.9, 1-48.
- Rimm, E. B.; Stamfer, M. J.; Ascherio, A.; Giovannucci, E.; Colditz, G. A.; Willet, W. C. (1993). Vitamin E Consumption and the Risk of Coronary Heart Disease in Men. *The new England Journal of Medicine*, vol. 328, n. 20, 1450-1456.
- Roose, M.; Kahl, J.; Ploeger, A. (2009). Influence of the farming system on the xanthophylls content of soft and hard wheat. *J. Agric. Food Chem.*, 57, 182-188.
- Ryan, M. H.; Derrick, J. W.; Dann, P. R. (2004). Grain mineral concentrations and yield of wheat grown under organic and conventional management. *J. Sci. Food Agric.*, 84, 207-216.
- Santucci, F. M. (2009). I circuiti commerciali dei prodotti biologici. *Agriregionieuropa*, anno 5, n. 17.
- Sciarra, D.; Padrevita, R. (2010). Pesticidi nel piatto 2010. *Legambiente*.

Slavin, J. L. (2000). Whole grains, refined grains and fortified refined grains: What's the difference? Asia Pacific J. Clin. Nutr., 9, S23-S27.

Slavin, J. (2004). Whole grains and human health. Nutrition Research Reviews, 17, 1-12.

Sosulski, F.; Krygier, K.; Hogge, L. (1982). Free, esterified, and insoluble-bound phenolic acids. 3. Composition of phenolic acids in cereal and potato flours. J. Agric. Food Chem., 30, 337-340.

Sramkova, Z.; Gregova, E.; Sturdik, E. (2009). Chemical composition and nutritional quality of wheat grain. Acta Chimica Slovaca, Vol.2, No.1, 115-138.

Steffen, L. M.; Jacobs, D. R.; Murtaugh, M. A.; Moran, A.; Steinberger, J.; Hong, C.-P.; Sinaiko, A. (2003). Whole grain intake is associated with lower body mass and greater insulin sensitivity among adolescents. Am. J. Epidemiol., 158, 243-250.

Stracke, B. A.; Eitel, J.; Watzl, B.; Mader, P.; Rufer, C. E. (2009). Influence of the production method on phytochemical concentrations in whole wheat: a comparative study. J. Agric. Food Chem., 57, 10116-10121.

Tomas-Barberan, F.; Clifford, M. (2000). Dietary hydroxybenzoic acid derivatives – nature, occurrence and dietary burden. J Sci Food Agric., 80, 1024-1032.

Thompson, L. U. (1994). Antioxidants and hormone-mediated health benefits of whole grains. Critical Reviews in Food Science and Nutrition, 34, 473-497.

Torbica, A.; Antonov, M.; Mastilovic, J.; Knezevic, D. (2007). The influence of changes in gluten complex structure on technological quality of wheat (*Triticum Aestivum* L.). Food Research International, 40, 1038-1045.

Vaher, M.; Matso, K.; Levandi, T.; Helmja, K.; Kaljurand, M. (2010). Phenolic compounds and the antioxidant activity of the bran, flour and whole grain of different wheat varieties. Procedia Chemistry, 2, 76-82.

Váňová, M.; Klem, K.; Míša, P.; Matušinsky, P.; Hajšlová, J.; Lancová, K. (2008). The content of *Fusarium* mycotoxins, grain yield and quality of winter wheat cultivars under organic and conventional cropping systems. Plant Soil Environ., 54, 9, 395–402.

Wikipedia , Triticum, (Wikipedia, <http://it.wikipedia.org/wiki/Triticum>).

Winter, C. K.; Davis, S. F. (2006). Organic foods. Journal of food science, vol.71, n.9, 117-124.

Woese, K.; Lange, D.; Boess, C.; Bogl, K. W. (1997). A comparison of organically and conventionally grown foods. Results of a review of the relevant literature. J. Sci. Food Agric., 74, 281-293.

- Worthington, V. (2001) Nutritional quality of organic versus conventional fruits, vegetables, and grains. *The Journal of Alternative and Complementary Medicine*, vol. 7, num. 2, 161-173.
- Young, J E.; Zhao, X.; Carey, E.E.; Welti, R.; Yang, S.-S., Wang, W. (2005). Phytochemical phenolics in organically grown vegetables. *Mol. Nutr. Food Res.*, 49, 1136-1142.
- Zhao, X.; Carey, E. E.; Wang, W.; Rajashekar, C. B. (2006). Does organic production enhance phytochemical content of fruit and vegetables? Current knowledge and prospect for research. *Hort Technology*, 16, 449-456.
- Zhou, K. (2005). Phytochemical profiles and antioxidant properties of wheat. Dissertation submitted to the Faculty of the Graduate School of the University of Maryland, College Park in partial fulfillment of the requirements for the degree of Doctor of Philosophy, 1-135.
- Zhou, K.; Su, L.; Yu, L. L. (2004). Phytochemicals and antioxidant properties in wheat bran. *J. Agric. Food Chem.*, 52, 6108-6114.
- Zhou, K.; Yin, J.J.; Yu, L. L. (2005). Phenolic acid, tocopherol and carotenoid compositions, and antioxidant functions of hard red winter wheat bran. *J. Agric. Food Chem.*, 53, 3916-3922.
- Zorb, C.; Niehaus, K.; Brsch, A.; Betsche, T., Langenkamper, G. (2009). Levels of compounds and metabolites in wheat ears end grains in organic and onventional agriculture. *J. Agric. Food Chem.*, 57, 9555-9562.
- Zuchowski, J.; Kapusta, I.; Szajwaj, B.; Jonczyk, K.; Oleszek, W. (2009). Phenolic acid content of organic and conventionally grown winter wheat. *Cereal Research Communications*, 37, 189-197.