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Sostanze
nutraceutiche

Bibliografia

- [1] Brower V, Nutraceuticals: poised for a healthy slice of the healthcare market? *Nat Biotechnology*. 1998; 16: 728-731.
- [2] Sies, Helmut (1997). Oxidative stress: Oxidants and antioxidants. *Experimental physiology* 82 (2): 291-5.
- [3] V. Calabrese, C. Cornelius, V. Leso, A. Trovato-Salinaro, B. Ventimiglia, M. Cavallaro, M. Scuto, S. Rizza, L. Zanoli, S. Neri, P. Castellino, Oxidative stress, glutathione status, sirtuin and cellular stress response in type 2 diabetes, *BBA* (2012) 1822(5), 729-736.
- [4] <http://en.wikipedia.org/wiki/Hormesis>.
- [5] Calabrese, Edward J.; Cook, Ralph (2006). The Importance of Hormesis to Public Health. *Environmental Health Perspectives* 114 (11): 1631-5.
- [6] Castro, Paola V.; Khare, Shilpi; Young, Brian D.; Clarke, Steven G. (2012). *Caenorhabditis elegans* Battling Starvation Stress: Low Levels of Ethanol Prolong Life-span in L1 Larvae. In Singh, Shree Ram. *PLoS ONE* 7 (1): e29984.
- [7] H. J. Formana, K. J.A. Daviesb, F. Ursinid, How do nutritional antioxidants really work: Nucleophilic tone and para-hormesis versus free radical scavenging in vivo, *Free Radical Biology and Medicine* 2014: 66, 24-35.
- [8] H.J. Forman, F. Ursini, Para-hormesis: An innovative mechanism for the health protection brought by antioxidants in wine, *Nutrition and Aging* 2 (2014) 117-124
- [9] Le Bourg, Eric; Rattan, Suresh, eds. (2008). *Mild Stress and Healthy Aging: Applying hormesis in aging research and interventions*. ISBN 978-1-4020-6868-3.
- [10] Rattan, S. I. (2008). Principles and practice of hormetic treatment of aging and age-related diseases. *Human & Experimental Toxicology* 27 (2): 151-4.
- [11] Rattan, Suresh I.S. (2008). Hormesis in aging. *Ageing Research Reviews* 7 (1): 63-78.
- [12] Gems, David; Partridge, Linda (2008). Stress-Response Hormesis and Aging: «That which Does Not Kill Us Makes Us Stronger». *Cell Metabolism* 7 (3): 200-3.
- [13] Harman, D (1956). Aging: a theory based on free radical and radiation chemistry. *Journal of Gerontology* 11 (3): 298-300.
- [14] Ristow, M; Zarse, K (2010). How increased oxidative stress promotes longevity and metabolic health: The concept of mitochondrial hormesis (mitohormesis). *Experimental Gerontology* 45 (6): 410-8.
- [15] Cascella R., Evangelisti E., Zampagni M., Becatti M., D'Adamo G., Goti A., Liguri G., Fiorillo C., Cecchi C., S-linolenoyl glutathione intake extends life span and stress resistance via Sir-2.1 upregulation in *Caenorhabditis elegans*. *Free Radic Biol Med*. 2014 May 15.
- [16] Ristow M, Zarse K (2010). How increased oxidative stress promotes longevity and metabolic health: the concept of mitochondrial hormesis (mitohormesis). *Experimental Gerontology* 45 (6): 410-418.
- [17] Bjelakovic, Goran; Nikolova, D; Gluud, LL; Simonetti, RG; Gluud, C (2007). Mortality in Randomized Trials of Anti-oxidant Supplements for Primary and Secondary Prevention: Systematic Review and Meta-analysis. *JAMA* 297 (8): 842-57.
- [18] Meister, Alton (1994). Glutathione-ascorbic acid antioxidant system in animals. *The Journal of Biological Chemistry* 269 (13): 9397-400.
- [19] Meister, A; Anderson, M E (1983). Glutathione. *Annual Review of Biochemistry* 52: 711-60.
- [20] Witschi A., Reddy S., Stofer B., Lauterburg B.H., The systemic availability of oral glutathione, *Eur J Clin Pharmacol*. 1992;43(6):667-9.
- [21] Jason Allen, Ryan D., *Bradley Journal of Alternative and Complementary Medicine* 2011; 17(9): 827-833.
- [22] A. Pensalfini, C. Cecchi, M. Zampagni, M. Becatti, F. Favilli, P. Paoli, S. Catarzi, S. Bagnoli, B. Nacmias, S. Sorbi, G. Liguri, Protective effect of new S-acylglutathione derivatives against amyloid-induced oxidative stress, *Free Radical Biology & Medicine* 44 (2008) 1624-1636.
- [23] Janssen LJ (2001). Isoprostanes: an overview and putative roles in pulmonary pathophysiology. *Am. J. Physiol. Lung Cell Mol. Physiol.* 280 (6): L1067-82.
- [24] Evans A.R., Junger H., Southall M.D., et al. (2000). Isoprostanes, novel eicosanoids that produce nociception and sensitize rat sensory neurons. *J. Pharmacol. Exp. Ther.* 293 (3): 912-20.
- [25] Seet, R.C.; Lee, C.Y.; Loke, W.M.; Huang, S.H.; Huang, H.; Looi, W.F.; Chew, E.S.; Lim, E.C. et al. (2011). Biomarkers of oxidative damage in cigarette smokers: Which biomarkers might reflect acute versus chronic oxidative stress?, *Free Radical Biology and Medicine* 50 (12): 1787-1793.
- [26] Montuschi P, Barnes P.J., Roberts L.J., Isoprostanes: markers and mediators of oxidative stress. *FASEB J*. 2004 Dec;18(15):1791-800.
- [27] Subramanian K., Sekaran M., Rajes Q., Ikram S.I., F2-Isoprostanes as Novel Biomarkers for Type 2 Diabetes: a Review, *Clin Biochem Nutr.* July 2009; 45(1): 1-8.
- [28] Seet, R.C.S.; Lee, C.Y.J.; Loke, W.M.; Huang, S.H.; Huang, H.; Looi, W.F.; Chew, E.S.; Quek, A.M.L. et al.

- (2011), Biomarkers of oxidative damage in cigarette smokers: Which biomarkers might reflect acute versus chronic oxidative stress? *Free Radical Biology and Medicine* 50 (12): 1787–1793.
- [29] Ciuti R., Liguri G., A new assay for total antioxidant capacity in whole blood and other biological samples, *Ligand Assay 19^o Annual Symposium*, 25-27 November 2013, Bologna.
- [30] www.ars.usda.gov/SP2UserFiles/Place/80400525/Articles/AICR06_flav.pdf
- [31] Verwerdis F.; Trantas E.; Douglas C.; Vollmer G.; Kretschmar G.; Panopoulos N. (October 2007). Biotechnology of flavonoids and other phenylpropanoid-derived natural products. Part I: Chemical diversity, impacts on plant biology and human health. *Biotechnology Journal* 2 (10): 1214–34.
- [32] Carratù B., Sanzini E., Sostanze biologicamente attive presenti negli alimenti di origine vegetale. *Ann Ist Super Sanità* 2005;41(1):7-16.
- [33] Jan Ø Moskaug, Harald Carlsen, Mari C.W. Myhrstad, Rune Blomhoff, Polyphenols and glutathione synthesis regulation, *Am J Clin Nutr* 2005; 81(suppl):
- [34] Jan Ø Moskaug, Harald Carlsen, Mari C.W. Myhrstad, Rune Blomhoff, Polyphenols and glutathione synthesis regulation, *Am J Clin Nutr* 2005; 81(suppl): 277S–83S.
- [35] Mari C.W. Myhrstad, Harald Carlsen, O. Nordström, Rune Blomhoff, Jan Ø Moskaug, Flavonoids increase the intracellular glutathione level by transactivation of the gamma-glutamylcysteine synthetase catalytic subunit promoter. *Free Radical Biology and Medicine* 04/2002; 32(5):386-93.
- [36] Jan Ø Moskaug, Harald Carlsen, Mari C.W. Myhrstad, Rune Blomhoff, Polyphenols and glutathione synthesis regulation, *Am J Clin Nutr* 2005; 81(suppl):
- [37] M. Stefani, S. Rigacci, Protein Folding and Aggregation into Amyloid: The Interference by Natural Phenolic Compounds, *Int. J. Mol. Sci.*, Review 2013, 14, 12411-12457;
- [38] Adam J. Schindler, R. Sherwood, Identification of Late Larval Stage Developmental Checkpoints in *Caenorhabditis elegans* Regulated by Insulin/IGF and Steroid Hormone Signaling Pathways, *PLOS Genetics*, June 19, 2014.
- [39] Kathrin Pallauf, Gerald Rimbach, Autophagy, polyphenols and healthy ageing, *Ageing Research Reviews* Vol. 12, Issue 1, January 2013, pp. 237–252
- [40] D. Borota et al., Post-study caffeine administration enhances memory consolidation in humans. *Nat. Neurosci.* 17:201-203 (2014).
- [41] Moyers S.B., Kumar N.B., Green tea polyphenols and cancer chemoprevention: multiple mechanisms and endpoints for phase II trials. *Nutrition Reviews* (2004). 62: 204-211.
- [42] Suk-Joon Hyung et al. Insights into anti-amyloidogenic properties of the green tea extract (–)-epigallocatechin-3-gallate toward metal-associated amyloid- β species, *PNAS* 110(10), 3743–3748.
- [43] Cabrera C., Artacho R., Gimenez R., Beneficial effects of green tea - a review. *J Am Coll Nutr.* (2006) 2: 79-99.
- [44] Yang C.S., Landau J.M., Huang M.T., Newmark H.L., Inhibition of carcinogenesis by dietary polyphenolic compounds. *Annual Review of Nutrition* (2001). 21: 381-406.
- [45] www.theplantlist.org/tpl/record/ild-6704
- [46] Natalizia Miceli, M. R. Mondello, M. T. Monforte, V. Sdrakakis, P. Dugo, M. L. Crupi, M. F. Taviano, R. De Pasquale, A. Trovato, Hypolipidemic Effects of Citrus bergamia Risso et Poiteau Juice in Rats Fed a Hypercholesterolemic Diet, *J. Agric. Food Chem.*, vol. 55, n. 27, 2007, pp. 10671–10677.
- [47] M. Leopoldini, N. Malaj, M. Toscano, G. Sindona, N. Russo, On the Inhibitor Effects of Bergamot Juice Flavonoids Binding to the 3-Hydroxy-3-methylglutaryl-CoA Reductase (HMGR) Enzyme, *J. Agric. Food Chem.*, vol. 58, n. 19, 2010, pp. 10768–10773.