

Resveratrol and French Connection

Any one visiting France will notice that their food is not quite in category of healthy. It is fatty with a lot of cream or butter and fatty goose liver is their national cuisine. Surprisingly you will not see many fat people on the street and cardiovascular disease is not their prime health problem.

Medical world for a long time was intrigued why French do not have the same health problems as people in other countries have. They even found name for it: French Paradox!

In seventies study on eating habits revealed that French are largest consumers of red wine per capita. They do not have a meal without bottle of red. Further studies revealed that red wine has something more than white wine does not have. This substance is called Resveratrol, a somewhat phytochemical with strong antioxidant properties. More studies revealed that Resveratrol is responsible for number of health giving properties.

Resveratrol has been demonstrated to have an anti-clotting effect that prevents the formation of thrombi or blood clots in the blood vessels. The formation of thrombi that block small blood vessels is believed to be a cause of heart attacks and strokes.

When given to mice Resveratrol slowed down aging, comparing to control group. Harvard Medical School found that Resveratrol extended lifespan of any species they have fed to, including worms, flies and fish! The researchers found that, among the overweight mice, Resveratrol reduced the negative impact of being obese.

Resveratrol appears to be associated with anti-aging and preventing the effects of diseases of aging, such as diabetes, cancer and dementia.

John Hopkins University, USA – showed that Resveratrol assisted in building cell resistance against free radical damage. It also showed that resveratrol increased levels of an enzyme in the brain - heme oxygenase – which is apparently already known to shield nerve cells from damage.

Last year research publication Nature revealed that other compounds found in red wine playing equally important role. They are oligomeric procyanidins, group of flavonoids, which suppress hardening of arteries.

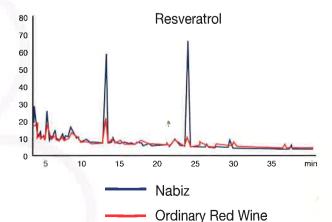
The incidence of heart disease and cancer among populations who consume a lot of red wine is dramatically less than those that don't, even though they may also have a high fat diet. Resveratrol has also been demonstrated to promote the formation of new dendrites in the brain.

Bad thing is that to get benefit of these valuable substances you have to drink hundreds of litres of red wine, because Resveratrol is found in minute quantities.

Nabiz is specially manufactured non-alcoholic red wine concentrate with high level of *Resveratrol* and grape tannins, over 100 times more than found in ordinary red wine.

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News on the grapevine uncovered a natural substance so powerful it can reverse the toll of ageing and cure and prevent disease — it's called Resveratrol.

with Resveratrol

Resveratrol

References

- 1 Ferrieres, J. (2004). The French Paradox; Lessons for other countries [Electronic version]. Heart, 90, 107–111
- 2 Jill C, Milne, et al, Small molecule activators of SIRT1 as therapeutics for the treatment of type 2 diabetes, JNature; November 29, 2007
- 3 Yang, Y.B. et al. Effects of resveralrol on secondary damages after acute spinal cord injury in rats. Acta, Pharmacol, Sin. 2003; 24:703-10
- 4 Tadolini, B. et al. Resveratrol inhibition of lipid peroxidation. Free Radic, Res. 2000;33:105-14
- 5 Resveratrol, The Peanut Institute (1999), Retrieved on 2007-06-18.
- 6 Wang Y, Calana F, Yang Y, Roderick R, van Breemen RB (2002), "An LC-MS method for analyzing total resveratrol in grape juice, cranberry juice, and in vine". J, Agric, Food Chem. 50 (3): 431-5, PMID 11804508
- 7 Jang, L. Cai G.O. Údeani, K.V. Slowing, C.F. Thomas, C.Wm, W. Beecher, H.H.S. Fong, N.R. Farnsworth, A.D. Kinghorn, R.G. Mehla, R.C. Moon and J.M. Pezzulo, "Cancer chemopreventive activity of resveralrol, a natural product derived from grapes" Science 275: 218–220 (1997).
- 8 Renaud S, Ruf JC (1994), "The French paradox: vegetables or wine". Circulation 90 (6): 3118-9. PMID 7994864
- 9 Leiro J, Arranz JA, Fraiz N, Sanmartin ML, Quezada E, Orallo F (2005) "Effect of cis-resveratrol on genes involved in nuclear factor kappa B signaling". Int. Immunopharmacol. 5 (2): 393–406. doi:10.1016/j.intimp.2004.10.006. PMID 15652768.
- 10 Leiro J, Arranz JA, Fraiz N, Sammartin ML, Quezada E, Orallo F (2005), "Effect of cis-resveratrol on genes involved in nuclear factor kappa B signaling". Int. Immunopharmacot. 5 (2): 393–406. doi:10.1016/j.intimp.2004.10,006. PMID 15652768 11 Chun YJ, Kim MY, Guengerich FP (1999), "Resveratrol is a selective human cytochrome P450 141 inhibitor". Blochem.
- 11 Chun YJ, Kim MY, Guengerich FP (1999). "Resveratrol is a selective human cytochrome P450 1A1 inhibitor". Biochem. Biophys. Res. Commun. 262 (1): 20-4, doi:10.1006/bbrc.1999.1152, PMID 10.448661
- 12 Schwarz D, Roots I (2003). "In vitro assessment of inhibition by natural polyphenols of metabolic activation of procarcinogens by human CYP1A1", Biochem, Biophys, Res. Commun. 303 (3): 902-7, PMID 12670496
- 13 Benilez DA, Pozo-Guisado E, Alvarez-Barrientos A, Fernandez-Salguero PM, Castellon EA (October 18 2006), "Mechanisms involved in resveratrol-induced apoptosis and cell cycle arrest in prostate cancer-derived cell lines", Journal of Andrology, PMID 17050787
- 14 Zhuang, H, et al, Potential mechanism by which resveratrol, a red wine constituent, protects neurons, Ann. N.Y. Acad. Sci. 2003;993:276-86
- 15 Floreani, M, et al, Oral administration of trans-resveratrol to guinea pigs increases cardiac DT-diaphorase and catalase activities, and protects isolated atria from menadione toxicity. Life Sci. 2003;72:2741-50.
- 16 Ferguson, L.R. Role of plant polyphenols in genomic stability. Mul. Res. 2001;475:89-111
- 17 Casper, R.F. et al, Resveratrol has antagonist activityon the anyl hydrocarbon receptor: implications for prevention of dioxin toxicity. Mol. Pharmacol. 1999;56:784-90
- 18 Hsieh, T.C., et al. Cell cycle effects and control of gene expression by resveratrol in human breast carcinoma cell lines with different metastatic potentials. Int. J. Oncol., 1999;15:245-52
- 19 Cal, C. et al. Resveratrol and cancer: chemoprevention, apoplosis, and chemolimmunosensitizing activities. Curr. Met. Chem-Anti-Cancer Agents 2003;3:77-93
- 20 Serrero, G, et al. Effect of resveratrol on the expression of autocrine growth modulators in human breast cancer cells. Antioxid. Redox, Signal 2001;3:969-79
- 21 Ulsperger, E. et al. Resveratrol pretreatment desensitizes AHTO-7 human osteoblasts to growth stimulation in response to carcinoma cell supernatants. Int. J. Oncol. 1999;15:955-59
- 22 Aggarwal BB, Bhardwaj A. Aggarwal RS, Seeram NP, Shishodia S, Takada Y. Role of resveratrol in prevention and therapy of cancer: preclinical and clinical studies. Anticancer Res. 2004;24(5A):2783-2340
- 23 Adhami, V.M., et al. Suppression of ultraviolet B exposure-mediated activation of NF-kappaB in normal human keratinocytes by resveralrol, Neoplasia 2003;5;74-82
- 24 Aggarwal BB, Bhardwaj A, Aggarwal RS, Seeram NP, Shishodia S, Takada Y. Role of resveratrol in prevention and therapy of cancer: preclinical and clinical studies. Anticancer Res, 2004;24(5A):2783-2840
- 25 Chen ZH, Hurh YJ, Na HK, et al. Resveratrol inhibits TCDD-induced expression of CYP1A1 and CYP1B1 and catechol estrogen-mediated oxidative DNA damage in cultured human mammary epithelial cells. Carcinogenesis. 2004;25(10):2005-2013
- 26 Ciolino HP, Yeh GC. Inhibition of aryl hydrocarbon-induced cytochrome P-450 1A1 enzyme activity and CYP1A1 expression by resveratrol. Mol Pharmacol., 1999;56(4):760-767
- 27 Woo JH, Lim JH, Kim YH, et al. Resveratrol inhibits phorbol myristate acetate-induced matrix metalloproteinase-9 expression by inhibiting JNK and PKC delta signal transduction. Oncogene. 2004;23(10):1845-1853
- 28 Aggarwal BB, Bhardwaj A, Aggarwal RS, Seeram NP, Shishodia S, Takada Y. Role of resveratrol in prevention and therapy of cancer: preclinical and clinical studies. Anticancer Res. 2004;24(5A):2783-2840
- 29 Faber AC, Chiles TC (Dec 2006). "Resveratrol induces apoptosis in transformed follocular lymphoma OCI-LY8 cells: Evidence for a novel mechanism involving inhibition of BCL6 signaling". International Journal of Oncology 29 (6) PMID 17088997.

