

## **Kutatáshoz felhasznált szakirodalom:**

Liu, RH.: Potential synergy of phytochemicals in cancer prevention: mechanism of action; In: *J. Nutr.*, 2004,134:3479-3485.

Liu, RH.: Health benefits of fruit and vegetables are from additive and synergistic combinations of phytochemicals; In: *Am J Clin Nutr.*, 2003,78(suppl):517-20.

Gradolatto, A., et al.: Pharmacokinetics and metabolism of apigenin in female and male rats after a single oral administration; In: *Drug Metabolism and Disposition*, 2005, 33(1):49-54.

King, H.G.C.: Phenolic compounds of commercial wheat germ; In: *Journal of food science*; 1962

Xu, G., et al.: Inhibition of human breast cancer cell line BCap-37 by flavonoid extract of wheat germ in vitro; In: *Wei Sheng Yan Jiu*, 1999, 28(3):151-2.

Wu, B., et al.: Antioxidation of flavones of wheat germ on mammary tumor of rats; In: *Wei Sheng Yan Jiu*, 2001; 30(4):215-7.

Birt, DF., et al.: Inhibition of ultraviolet light induced skin carcinogenesis in SKH-1 mice apigenin, a plant flavonoid; In: *Anticancer Res*; 1997, 17:85-91.

Wei, H., et al.: Inhibitory effect of apigenin, a plant flavonoid, on epidermal ornithine decarboxylase and skin tumor promotion in mice; In: *Cancer Res*;1990, 50:499-502.

Van Dross, R., et al.: The chemopreventive bioflavonoid apigenin modulates signal transduction pathways in keratinocyte and colon carcinoma cell lines; In: *J Nutr*, 2003, 133: 3800-3804.

Lindenmeyer, F., et al.: Apigenin acts on the tumor cell invasion process and regulates protease production; In: *Nutr Cancer*; 2001, 39:139-147.

Piantelli, M., et al.: Flavonoids inhibit melanoma lung metastasis by impairing tumor cells endothelium interactions; In: *J Cell Physiol*, 2006, 207:23-29.

Way, TD., et al.: Apigenin induces apoptosis through proteasomal degradation of HER2/neu in HER2/neu-overexpressing breast cancer cells via the phosphatidylinositol 3-kinase/Akt-dependent pathway; In: *J Biol Chem*, 2004,279:4479-4489.

Way, TD., et al.: Degradation of HER2/neu by apigenin induces apoptosis through cytochrome c release and caspase-3 activation in HER2/neu-overexpressing breast cancer cells; In: *FEBS Lett*, 2005, 579: 145-152.

Zheng, PW., et al.: Apigenin induced apoptosis through p53-dependent pathway in human cervical carcinoma cells; In: *Life Sci*, 2005, 76:1367-1379.

Wang, W., et al.: Cell-cycle arrest at G2/M and growth inhibition by apigenin in human colon carcinoma cell lines; In: *Mol Carcinog*, 2000, 28: 102-110.

Wang, IK., et al.: Induction of apoptosis by apigenin and related flavonoids through cytochrome c release and activation of caspase-9 and caspase-3 in leukemia HL-60 cells; In: *Eur J Cancer*, 1999, 35:1517-1525.

Liu LZ., et al.: Apigenin inhibits expression of vascular endothelial growth factor and angiogenesis in human lung cancer cells: implication of chemoprevention of lung cancer; *Mol Pharmacol*, 2005, 68: 635-643.

Fang, J., et al.: Apigenin inhibits VEGF and HIF-1 expression via PI3K/AKT/p70S6K1 and HDM2/p53 pathways; In: *FASEB J*, 2005, 19: 342-353.

Zhu, F., et al.: Effect of emodin and apigenin on invasion of human ovarian carcinoma HO-8910PM cells in vitro; In: *Ai Zheng*, 2003, 22: 358-362.

Gupta, S., et al.: Selective growth-inhibitory, cell cycle deregulatory and apoptotic response of apigenin in normal versus human prostate carcinoma cells; In: *Biochem Biophys Res Commun*, 2001, 287: 914-920.

Gupta, S., et al.: Involvement of nuclear factor kappa B, Bax and Bcl-2 in induction of cell cycle arrest and apoptosis by apigenin in human prostate carcinoma cells; In: *Oncogene*, 2002, 21: 3727-3738.

Morrissey, C., et al.: Apigenin drives the production of reactive oxygen species and initiates a mitochondrial mediated cell death pathway in prostate epithelial cells; In: *Prostate*, 2005, 63: 131-142.

Shukla, S., et al.: Up-regulation of insulin-like growth factor binding protein-3 by apigenin leads to growth inhibition and apoptosis of 22Rv1 xenograft in athymic nude mice; In: *FASEB J*, 2005, 19: 2042-2044.

Shukla, S., et al.: Blockade of (beta)-catenin signalling by plant flavonoid apigenin suppresses prostate carcinogenesis in TRAMP mice; In: *Cancer Res.*, 2007, 67(14):6925-35.

Caltagirone, S., et al.: Flavonoids apigenin and quercetin inhibit melanoma growth and metastatic potential; In: *Int J Cancer*, 2000, 87: 595-600.

Birt, DF., et al.: Inhibition of ultraviolet light induced skin carcinogenesis in SKH-1 mice by apigenin, a plant flavonoid; In: *Anticancer Res*, 1997, 17: 85-91.

Wu, K., et al.: Inhibitory effects of apigenin on the growth of gastric carcinoma SGC-7901 cells; In: *World J Gastroenterol*, 2005, 11: 4461-4464.

Jeyabal, PV., et al.: Apigenin inhibits oxidative stress-induced macromolecular damage in N-nitrosodiethylamine (NDEA)- induced hepatocellular carcinogenesis in Wistar albino rats; In: *Mol Cancer*, 2005, 4: 11-20.

Yin, F., et al.: Signal pathways involved in apigenin inhibition of growth and induction of apoptosis of human anaplastic thyroid cancer cells (ARO). In: *Anticancer Res.*, 1999, 19: 4297-4303.

Torkin, R., et al.: Induction of caspase-dependent, p53-mediated apoptosis by apigenin in human neuroblastoma; In: *Mol Cancer Ther*, 2005, 4:11-20.

Ujiki, MB., et al.: Apigenin inhibits pancreatic cancer cell proliferation through G2/M cell cycle arrest; In: *Molecular Cancer*, 2006, 5:76.

Van Rijn, J., et al.: Flavonoids as enhancers of x-ray-induced cell damage in hepatoma cells; In: *Clin. Cancer Res.*, 1997, 3:1775-1779.

Cltagirone, S., et al.: Flavonoids apigenin and quercetin inhibit growth and metastatic potential; In: *Int. J. Cancer*, 2000, 87: 595-600.

Watanabe, N., et al.: The chemopreventive flavonoid apigenin confers radiosensitizing effect in human tumor cells grown as monolayers and spheroids; In: *J. Radiat. Res.*, 2007, 48:45-50.

Shukla, S., et al.: Apigenin-induced cell cycle arrest is mediated by modulation of MAPK, PI3K-Akt, and loss of cyclin D1 associated retinoblastoma dephosphorylation in human prostate cancer cells; In: *Cell Cycle.*, 2007, 6(9):1102-14.

Pl. Takagaki, N., et al.: Apigenin induces cell cycle arrest and p21/WAF1 expression in a p53-independent pathway; In: *Int J Oncol.*, 2005, 26(1):185-9.

Reiners, JJ. et al.: Suppression of cell cycle progression by flavonoids: dependence on the aryl hydrocarbon receptor; In: *Carcinogenesis*, 1999, 89:1561-1566.

Fang, J., et al.: Apigenin inhibits tumor angiogenesis through decreasing HIF-1 alpha and VEGF expression; In: *Carcinogenesis*, 2007, 28(4):858-64.

Fang, J., et al.: Apigenin inhibits VEGF and HIF-1 expression via PI3K/AKT/p70S6K1 and HDM2/p53 pathways; In: *FASEB J.*, 2005, 19(3):342-53.

Vargo, MA., et al.: Apigenin-induced-apoptosis is mediated by the activation of PKCdelta and caspases in leukemia cells; In: *Biochem Pharmacol.*, 2006, 72(6):681-92.

Way, TD., et al.: Role of HER2/HER3 co-receptor in breast carcinogenesis; In: *Future Oncol.*, 2005, 1(6):841-9.

- Shukla, S., et al.: Up-regulation of insulin-like growth factor binding protein-3 by apigenin leads to growth inhibition and apoptosis of 22Rv1 xenograft in athymic nude mice; In: *FASEB J*, 2005, 19: 2042-2044.
- Zheng, PW., et al.: Apigenin induced apoptosis through p53-dependent pathway in human cervical carcinoma cells; In: *Life Sci*, 2005, 76:1367-1379.
- Czyz, J., et al.: Flavonoid apigenin inhibits motility and invasiveness of carcinoma cells in vitro; In: *Int J Cancer.*, 2005,114(1):12-8.
- Piantelli, M., et al.: Flavonoids inhibit melanoma lung metastasis by impairing tumor cells endothelium interactions; In: *J Cell Physiol*, 2006, 207:23-29.
- Watanabe, N., et al.: The chemopreventive flavonoid apigenin confers radiosensitizing effect in human tumor cells grown as monolayers and spheroids; In: *J. Radiat. Res.*, 2007, 48:45-50.
- Osada, M., et al.: Apigenin suppresses the expression of VEGF, an important factor for angiogenesis, in endothelial cells via degradation of HIF-1 alpha protein; In: *FEBS Lett*, 2004, 575:59-63.
- Kim, MH.: Flavonoids inhibit VEGF/bFGF-induced angiogenesis in vitro by inhibiting the matrix-degrading proteases; In: *J Cell Biochem*, 2003, 89:529-538.
- Choi, JS., et al.: Flavones mitigate tumor necrosis factor-alpha-induced adhesion molecule upregulation in cultured human endothelial cells: role of nuclear factor-kappa B; In: *J Nutr*, 2004, 134:1013-1019.
- Yin, F., et al.: Signal pathways involved in apigenin inhibition of growth and induction of apoptosis of human anaplastic thyroid cancer cells (ARO); In: *Anticancer Res*, 1999, 19:4297-4303.
- Gupta, S., et al.: Involvement of nuclear factor kappa B, Bax and Bcl-2 in induction of cell cycle arrest and apoptosis by apigenin in human prostate carcinoma cells; In: *Oncogene*, 2002, 21: 3727-3738.
- Menichincheri, M., et al.: Catecholic flavonoids acting as telomerase inhibitors; In: *J Med Chem*, 2004, 47:6466-6475.
- Brusselmans, K., et al.: Induction of cancer cell apoptosis by flavonoids is associated with their ability to inhibit fatty acid synthase activity; In: *J Biol Chem*, 2005, 280: 5636-5645.
- Patel, D., et al.: Apigenin and cancer chemoprevention: Progress, potential and promise (Review); In: *International Journal of Oncology*, 2007, 30:233-245.
- Peterson, J., et al.: Flavonoid intake and breast cancer risk: a case-control study in Greece; In: *Br J Cancer.*, 2003, 89(7):1255-9.
- Fink, BN., et al.: Dietary flavonoid intake and breast cancer risk among women on Long Island; In: *American Journal of Epidemiology*, 2007, 165(5):514-523.
- Bosetti, C., et al.: Flavonoids and the risk of renal cell carcinoma; In: *Cancer Epidemiology Biomarkers and Prevention*, 2007, 16:98-101.
- Rossi, M., et al.: Flavonoids and colorectal cancer in Italy; In: *Cancer Epidemiology Biomarkers and Prevention*, 2006, 15(8).
- Bosetti, C., et al.: Flavonoids and breast cancer risk in Italy; In: *Cancer Epidemiology Biomarkers and Prevention*, 2005, 14:805-808.
- Kushi, LH., et al.: American cancer society guidelines on nutrition and physical activity for cancer prevention: Reducing the risk of cancer with healthy food choices and physical activity; In: *CA Cancer J Clin*, 2006, 56:354-281.
- Yano, S., et al.: The intake of apigenin may alleviate symptoms and even prevent allergic diseases; In: *Journal of Agricultural and food chemistry*, 2006, 54:5203-5207.
- Arts, ICW., et al.: Polyphenols and disease risk in epidemiologic studies; In: *Am J Clin Nutr*, 2005, 81(suppl):317-25.
- Tsukada, K., et al.: Cranberry juice and its impact on peri-stomal skin conditions for urostomy patients; In: *Ostomy Wound Manage*, 1994, 40(9):60-8.