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List of references supporting the assessment of *Cucurbita pepo* L., semen

Draft

The Agency acknowledges that copies of the underlying works used to produce this monograph were provided for research only with exclusion of any commercial purpose.

Abdel-Rahman MK. Effect of pumpkin seed (*Cucurbita pepo* L) diets on benign prostatic hyperplasia (BPH): chemical and morphometric evaluation in rats. *World J Chem* 2006; 1:33-40.

Akihisa T, Shimizu N, Ghosh P, Thakur S, Rosenstein FU, Tamura RT, Matsumoto T. Sterols of the Cucurbitaceae. *Phytochemistry* 1987; 26:1693-1700.

Akihisa T, Thakur S, Rosenstein FU, Matsumoto T. Sterols of *Cucurbitaceae*: The Configurations at C-24 of 24-Alkyl- Δ^5 -, Δ^7 and Δ^8 Sterols. *Lipids* 1986, 21:39-47.

Alekseeva MV. Investigation of salt-soluble proteins of pumpkin seeds (*Cucurbita pepo* L.) by a column gradient extraction method *Biokhimiia*. 1965; 30:60-66.

Alfawaz MA. Chemical composition and oil characteristics of Pumpkin (*Cucurbita maxima* L.) seed kernels. *Res Bull* 2004; 129:5-18.

Al Khalifa AS. Physicochemical characteristics, fatty acid composition, and lipoxygenase activity of crude pumpkin and melon seed oils. *J Agric. Food Chem*. 1996; 44:964-966.

Al-Zuhair H, Abd el-Fattah AA, El-Sayed MI. Pumpkin-seed oil modulates the effect of feloipine and captopril in spontaneous hypertensive rats. *Pharmacol Res*. 2000; 41:555-563.

Al-Zuhair H, Abd el-Fattah AA, Abd el Latif HA. Efficacy of simvastatin and pumpkin-seed oil in the management of dietary-induced hypercholesterolemia. *Pharmacol Res*. 1997;35:403-408.

Andersson KE, Wein AJ. Pharmacology of the Lower Urinary Tract: Basis for Current and Future Treatments of Urinary Incontinence. *Pharmacol Rev* 2004; 56:581-631.

Andres TC. Cucurbitaceae and home of the cucurbit network. <http://www.cucurbit.org/index.html> 2003

Andrikopoulos NK, Chiou A, Mylona A. Triacylglycerol species of less common edible vegetable oils. *Food Rev Int* 2004; 20:389-405.

- Appendino G, Jakupovic J, Belloro E, Marchesini A. Triterpenoid p-amino benzoates from the seeds of zucchini. *Fitoterapia* 2000; 71:258-263.
- Appendino G, Jakupovic J, Belloro E, Marchesini A. Multiflorane triterpenoid esters from pumpkin. An unexpected extrafoliar source of PABA. *Phytochemistry* 1999; 51:1021-1026.
- Auel W. Zur Heilwirkung des Kürbiskerns beim prostatistischen Symptomenkomplex. *Landarzt* 1962; 38:372-373.
- Azevedo-Meleiro CH, Rodriguez-Amaya DB. Qualitative and quantitative differences in carotenoid composition among *Cucurbita moschata*, *Cucurbita maxima*, and *Cucurbita pepo*. *J Agric Food Chem*. 2007; 55:4027-4033.
- Bach D. Placebokontrollierte Langzeit-therapiestudie mit Kürbissamenextrakt bei BPH-bedingten Miktionsbeschwerden. *Urologe [B]* 2000; 40:437-443.
- Barbieri L, Polito L, Bolognesi A, Ciani M, Pelosi E, Farini V, Jha AK, Sharma N, Vivanco JM, Chambery A, Parente A, Stirpe F. Ribosome-inactivating proteins in edible plants and purification and characterization of a new ribosome-inactivating protein from *Cucurbita moschata*. *Biochim Biophys Acta*. 2006; 1760:783-792.
- Bastić M, Bastić LJ, Jovanović JA, Spiteller G. Sterols in pumpkin seed oil. *J Am Oil Chem Soc* 1977; 54:525-527.
- Blagrove RJ, Lilley G. Characterization of Cucurbitin from various species of the Cucurbitaceae. *Eur J Biochem*. 1980; 103:577-584.
- Bombardelli E, Morazzoni P. *Cucurbita pepo* L. *Fitoterapia* 1997; 48:291-302.
- Bradley P. Pumpkin seed. *Cucurbitae peponis semen*. British Herbal Compendium. Vol 2. BHMA Bornemouth 2006; pp. 320-324.
- Bravi E, Perretti G, Montanari L. Fatty acids by high-performance liquid chromatography and evaporative light-scattering detector. *J Chromatogr A*. 2006; 1134:210-214.
- Bruneton J. Pharmacognosy, Phytochemistry, Medicinal Plants Lavoisier Publishing Inc, Intercept Ltd, London New York 1995.
- Carbin BE, Eliasson R. Curbicin vid behandling av benign prpostatahyperplasi (BPH) (Ett placebokontrollerat forsook med 26 patienter). *Swed J Biol Med*. 1989; 2:7-9
- Carbin BE, Larsson B, Lindahl O. Treatment of benign prostatic hyperplasia with phytosterols. *Br J Urol*. 1990; 66:639-641.
- Cerqueira PM, Freitas MCJ, Pumar M, Santangelo SB. Efeito da farinha de semente de abobora (*Cucurbita maxima*, L) sobre o metabolismo glicidico e lipidico em ratos. *Rev Nutr Campinas* 2008; 21:129-136.
- Chevallier A. *Cucurbita pepo*. Pumpkin In: Encyclopedia of Medicinal Plants. Dorling Kindersley, London 1996
- Chung WC, Ko B. Treatment of *Taenia saginata* infection with mixture of Areca nuts and pumpkin seeds. *Zhonghua Min Guo Wei Sheng Wu Xue Za Zhi*. 1976; 9:31-35.
- Cruz RCB, Meurer CD, Silva EJ, Schaefer C, Santos ARS, I Bella Cruz A, Filho VC. Toxicity evaluation of *Cucurbita maxima* seed extract in mice. *Pharmaceutical Biol* 2006; 44:301-303.
- Deutsches Arzneibuch, 10th ed. (DAB 10). 1991–1996. Kürbissamen – *Cucurbita pepo* seeds. Deutscher Apotheker Verlag. Stuttgart

- Duke JA. CRC Handbook of Medicinal Herbs. CRC Press, Inc. Boca Raton. London, New York, Washington 2000
- EFSA-ESCO Compendium Botanical Safety Concerns. Cucurbita pepo. *EFSA Journal* 2009; 7(9):30
- El-Adawy TA, Taha KM. Characteristics and composition of different seed oils and flours. *Food Chem* 2001; 74:47-54.
- ESCOP. Cucurbitae semen (Pumpkin Seed). In: ESCOP Monographs. 2nd edition, supplement 2009. European Scientific Cooperative on Phytotherapy, editor. Georg Thieme Verlag, Stuttgart 2009; 50-56.
- Fahim AT, Abd-el-Fattah AA, Agha AM, Gad MZ. Effect of pumpkin-seed oil on the level of free radical scavengers induced during adjuvant-arthritis in rats. *Pharmacol Res.* 1995; 31: 73-79.
- Fang EF, Wong JH, Lin P, Ng TB. Biochemical characterization of the RNA-hydrolytic activity of a pumpkin 2S albumin. *FEBS Lett.* 2010; 24;584:4089-4096.
- Feng LC. The combined use of pumpkin seed and areca nut in the treatment of tapeworm infections. *Chin Med J* 1956; 74:17-36.
- Figueredo E, Cuesta-Herranz J, Minguez A, Vidarte L, Pastor C, De Las Heras M, Vivanco F, Lahoz C. Allergy to pumpkin and cross-reactivity to other Cucurbitaceae fruits. *J Allergy Clin Immunol.* 2000;106:402-403
- Friedrich M, Theurer C, Schiebel-Schlosser G. Prosta Fink Forte® -kapseln in der behandlung der benignen prostatahyperplasie. Eine multizentrische anwendungsbeobachtung an 2245 patienten. *Forsch Komplementärmed Klass Naturheilkd.* 2000; 7:200-204.
- Fritsch R, Ebner H, Kraft D, Ebner C. Food allergy to pumpkinseed—characterization of allergens. *Allergy.* 1997; 52:335-337.
- Fruhworth GO, Hermetter A. Seeds and oil of the Styrian oil pumpkin: components and biological activities. *Eur J Lipid Sci Technol.* 2007; 109:1128-1140.
- Fruhworth GO, Hermetter A. Production technology and characteristics of Styrian pumpkin seed oil. *Eur J Lipid Sci Technol* 2008; 110:637-644.
- Fruhworth GO, Wenzl T, El-Toukhy R, Wagner FS, Hermetter A. Fluorescence screening of antioxidant capacity in pumpkin seed oils and other natural oils. *Eur J Lipid Sci Technol.* 2003; 105:266-274.
- Garg VK, Nes WR. Occurrence of $\Delta 5$ -sterols in plants producing predominantly $\Delta 7$ -sterols: studies on the sterol compositions of six cucurbitaceae seeds. *Phytochemistry* 1986; 25:2591-2597.
- Gasperi-Campani A, Barbieri L, Lorenzoni E, Stirpe F. Inhibition of protein synthesis by seed extract. *FEBS Lett* 1977; 76:173-176.
- Gerhäuser C, Samtleben R, Tan GT, Pezzuto JM, Lottspeich F, Wagner H. Peponin, a new ribosome-inactivating protein isolated from the seeds of Cucurbita pepo L. inhibits human immunodeficiency virus Type 1 reverse transcriptase. *Pharm Pharmacol Lett.* 1993; 3:71-75.
- Gemrot F, Barouh N, Vieu JP, Pioch D, Montet D. Effect of roasting on tocopherols of gourd seeds (Cucurbita pepo). *Grasas y Aceites* 2006; 57:409-414.
- German Commission E Monograph. Cucurbitae peponis semen. Bundesanzeiger No. 223 of 30 November 1985, amended in Bundesanzeiger No. 11 of 17 January 1991.
- Glew RH, Glew RS, Chuang LT, Huang YS, Millson M, Constans D, Vanderjagt DJ. Amino acid, mineral and fatty acid content of pumpkin seeds (Cucurbita spp) and Cyperus esculentus nuts in the Republic of Niger. *Plant Foods Hum Nutr.* 2006; 61:51-56.

- Gossell-Williams M, Lyttle K, Clarke T, Gardner M, Simon O. Supplementation with pumpkin seed oil improves plasma lipid profile and cardiovascular outcomes of female non-ovariectomized and ovariectomized Sprague-Dawley rats. *Phytother-Res* 2008; 22: 873-877.
- Gossell-Williams M, Davis A, O'Connor N. Inhibition of testosterone-induced hyperplasia of the prostate of Sprague-Dawley rats by pumpkin seed oil. *J Med-Food*. 2006; 9: 284-286.
- Gruenwald J, Brendler T, Jaenicke C (Ed.). PDR for Herbal Medicines. Cucurbita Pepo. Medical Economics Co., Inc., Montvale, NJ. 2000: 618-619.
- Gruenwald J, Brendler T, Jaenicke C (Ed.). PDR for Herbal Medicines. Cucurbita pepo. Thomson Medical Economics, Montvale NJ. 2004.
- Gupta Geeta RP, Maheshwari SC. Cytokinins in seeds of pumpkin. *Plant Physiol*. 1970; 45:14-18.
- Habib H, Fazili KM. Plant protease inhibitors: a defense strategy in plants. *Biotech Mol Biol Rev* 2007; 2:68-85.
- Hagendorens MM, Carrette M, Bridts CH, Stevens WJ, Ebo DG. Allergy from giant pumpkin (*Cucurbita maxima*) is not a fairy tale. *Allergy* 2009; 64:1686-1696.
- Haiyan Z, Bedgood DR, Bishop AG, Prenzler PD, Robards K. Endogenous biophenol, fatty acid and volatile profiles of selected oils. *Food Chem* 2007; p 1000:1544-1251.
- Hamvas A, Corradi GY, Hegedüs, Frang D. Experience with the Peponen® capsule in the management of benign prostatic hyperplasia. *Int Urol Nephrol* 1991; 23:51-55.
- Hänsel R, Keller K, Rimpel H, Schneider G. Cucurbita Hagers Handbuch der Pharmaceutischen. Praxis 5. vollständig neubearbeitete Auflage. Springer-Verlag Berlin Heidelberg New York, 1994, 1068-1079.
- Habib H, Fazili KM. Plant protease inhibitors: a defense strategy in plants. *Biotechnol. Mol. Biol Rev*. 2007; 2: <http://www.academicjournals.org/BMBR>
- Hata, Tanahashi S, Wakida Y, Tatsuzaki M, Koide A. Effects of pumpkin seed extract on urinary bladder function in anesthetized rats. *Med Sci Pharm Sci* 2005; 54:1-10.
<http://www.scicom.pdf.se/uretin/hata-2005.pdf>. Accessed 14.02.2010.
- Henderson CW, Scheerens JC, Berry JW. Antinutritional factors in Cucurbita seed meals. *J Agric Food Chem*. 1986; 34:434-436.
- Héthelyi E, Tétényi P, Zámbo I, Kaposi P. GC/MS investigation of different fatty acids from seeds of some medicinal plants. *Herba Hungarica* 1989; 28:69-78.
- Hojima Y, Pierce JV, Pisano JJ. Pumpkin seed inhibitor of human factor XIIa (activated Hageman Factor) and bovine trypsin. *Biochem J*. 1982; 21:3741-3746.
- Hsüeh-Chang C, Ming H. Pumpkin seed (*Cucurbita moschata*) in the treatment of acute schistosomiasis. *Chinese Med J*. 1960; 80:115-120.
- Hubbell RB, Vickery HB, Nolan LS. Cucurbit seed globulins. II. Use as substitutes for edestin in experimental diets. *J Nutr*. 1942; 99-101.
- Hungarian Observational Studies with pumpkin seed oil, 1988-1989. Hungarian National Drug Agency
- Huang KC. Anthelmintics. The Pharmacology of Chinese Herbs, Second Edition. CRC Press 1998. DOI: 10.1201/9781420048261. ch40
- Janick J, Paris H. The Cucurbit image (1515-1518) of the Villa Farnesina, Rome. *Ann Bot* 2006; 97:165-176.

- Kimmel JR, Smith EL. The amino acid composition of crystalline pumpkin seed globulin, edestin, C phycocyanin and R-phycoerythrin. *Bull-Soc-Chim-Biol-(Paris)*. 1958; 40: 2049-2065.
- Kreft I, Stibilj V, Trkov Z. Iodine and selenium contents in pumpkin (*Cucurbita pepo* L.) oil and oil-cake. *Eur Food Res Technol* 2002; 215:279-281.
- Kreft M, Zorec R, Janes D, Kreft S. Histolocalisation of the oil and pigments of the pumpkin seeds. *Ann Appl Biol*. 2009; 154:413-418.
- Küsmenoğlu S. Fatty acid composition of oils in Cucurbitaceae seeds. *J Fac Pharm Gazi* 1996; 13:167-170.
- Lahon LC; Khanikor HN, Ahmed N, Gogoi AR. Preliminary pharmacological and anticestodal screening of *Cucurbita maxima*. *Ind. J. Pharmac*. 1978; 10:315-317.
- Leluk J. Serine proteinase inhibitor family in squash seeds: mutational variability mechanism and correlation. *Cell Mol Biol Lett*. 2000; 5:91-106.
- Li W, Koike K, Tatsuzaki M, Koide A, Nikaido T. Cucurbitosides F-M, acylated phenolic glycosides from the seeds of *Cucurbita pepo*. *J Nat Prod* 2005; 68:1754-1757.
- Liang Y, Marlowe C, Waddell WJ. Autoradiographic study on tissue localization of [¹⁴C]cucurbitine in mice. *Acta Pharmacol Sin* 1982; 3:267-269.
- MacMillan J. Biosynthesis of the gibberellin plant hormones. *Nat Prod Rep*. 1997; 14: 221-243.
- Madaus G. Lehrbuch der Biologischen Heilmittel. *Cucurbita pepo*. Kürbis. Cucurbitaceae Georg Thieme Verlag, Leipzig 1938, <http://www.henriettesherbal.com/eclectic/madaus/cucurbita.html>. Accessed 25.02.2010.
- Mahmoud LH, Basiouny SO, Dawoud HA. Treatment of experimental heterophyiasis with two plant extracts, areca nut and pumpkin seed. *J Egypt Soc Parasitol*. 2002; 32:501-506.
- Makni M, Fetoui H, Gargouri NK, Garoui EM, Jaber H, Makni J, Boudawara T, Zeghal N. Hypolipidemic and hepatoprotective effects of flax and pumpkin seed mixture rich in ω -3 and ω -6 fatty acids in hypercholesterolemic rats. *Food Chem Toxicol* 2008; 46:3714-3720.
- Mansour EH, Dworschak E, Lugasi A, Barna E, Gergely A. Nutritive value of pumpkin (*Cucurbita pepo* Kakai 35) seed products. *J Sci Food Agric* 1993; 61:73-78.
- Marie-Magdeleine C, Hoste H, Mahieu M, Varo H, Archimede H. In vitro effects of *Cucurbita moschata* seed extracts on *Haemonchus contortus*. *Vet Parasitol* 2009; 161:99-105.
- Martindale. The Complete Drug Reference. The Pharmaceutical Press 2007.
- Matus Z, Molnar P, Szabo LG. Olajtök (*Cucurbita pepo* convar. *pepo* var. *styriaca*) magjából nyert présmaradék össz-karotetinoid-tartalmanak és karotinoid-összetételének meghatározása. *Acta Pharm Hung*. 1993; 63: 5:247-256.
- Mägi E, Talvik H, Jarvis T. In vivo studies of the effect of medicinal herbs on the pig nodular worm (*Oesophagostomum* spp.) *Helminthologia* 2005; 42:67-69.
- Mihrean VH, Abou-Chaar CI. Extraction, Detection and Estimation of Cucurbitin in *Cucurbita* Seeds. *Lloydia* 1968, 31:23-29.
- Miralles JC, Negro JM, Sánchez-Gascón F, Garcia M, Pascual A. Occupational rhinitis/asthma to courgette. *Allergy* 2000; 55:407-408.

- Murkowic M, Hillebrand A, Winkler J, Pfannhauser W. Variability of vitamin E content in pumpkin seed (*Cucurbita pepo* L.). *Z Lebensm Unters Forsch.* 1996a; 202: 275-278.
- Murkovic M, Hillebrand A, Winkler J, Leitner E, Pfannhauser W. Variability of fatty acid content in pumpkin seeds (*Cucurbita pepo* L.). *Z-Lebensm-Unters-Forsch.* 1996b; 203:216-219.
- Murkovic M, Mülleder U, Neunteufl H. Carotenoid Content in Different Varieties of Pumpkins. *J Food Comp Anal.* 2002; 15:633-638.
- Murkovic M, Piironen V, Lampi AM, Kraushofer T, Sontag G. Changes in chemical composition of pumpkin seeds during the roasting process for production of pumpkin seed oil (Part 1: non-volatile compounds). *Food Chem* 2004; 84:359-365.
- Ng TB. Antifungal proteins and peptides of leguminous and non-leguminous origins. *Peptides* 2004; 25:1215-1222.
- Nitsch-Fitz R, Egger H, Wutzl H, Maruna H. Einsatz des Kürbiskern-Diätetikums "Kürbis-Granufink" bei Patienten mit Prostatahyperthrophie in Wiener Allgemeinpraxen. *Ehk.* 1979; 12:1009-1013.
- Nkosi CZ, Opoku AR, Terblanche SE. Effect of pumpkin seed (*Cucurbita pepo*) protein isolate on the activity levels of certain plasma enzymes in CCl₄-induced liver injury in low-protein fed rats. *Phytother Res* 2005; 19:341-345.
- Nkosi CZ, Opoku AR, Terblanche SE. Antioxidative effects of pumpkin seed (*Cucurbita pepo*) protein isolate in CCl₄-induced liver injury in low-protein fed rats. *Phytother Res* 2006a; 20:935-940.
- Nkosi CZ, Opoku AR, Terblanche SE. In vitro antioxidative activity of pumpkin seed (*Cucurbita pepo*) protein isolate and its in vivo effect on alanine transaminase and aspartate transaminase in acetaminophen-induced liver injury in low protein fed rats. *Phytother. Res.* 2006b; 20:780-783.
- Otlewski J, Polanowski A, Leluk J, Wilusz T. Trypsin inhibitors in summer squash (*Cucurbita pepo*) seeds. Isolation, purification and partial characterization of three inhibitors. *Acta Biochim Pol.* 1984; 31:267-278.
- Otlewski J, Wilusz T. The serine proteinase inhibitor from summer squash (*Cucurbita pepo*): Some structural features, stability and proteolytic degradation. *Acta Bioch Pol.* 1985; 32:285-294.
- Otlewski J, Krowarsch D. Squash inhibitor family of serine proteinases. *Acta Bioch Pol.* 1996; 43:431-444.
- Parry J, Cheng Z, Moore J, Yu L. Fatty acid composition, antioxidant properties, and antiproliferative capacities of cold-pressed seed flours. *JAOCs* 2008; 85:457-464.
- Плотников НН, Карнаухов, ВК, Озерекоская НН, Стромская ТФ, Фирсова РА. Clinical trials of Cucurbin (a preparation from pumpkin seeds) in cestodes infections. *Med Parasitol* 1972; 41:407-411. [in Russian]
- Polanowski A, Wilusz T., Nienartowicz B, Cieslar E, Słomińska A, Nowak K. Isolation and partial amino acid sequence of the trypsin inhibitor from the seeds of *Cucurbita maxima*. *Acta Biochim Pol.* 1980; 27:371-383.
- Polanowski A, Cieslar E, Otlewski J, Nienartowicz B, Wilimowska-Pelc A, Wilusz T. Protein inhibitors of trypsin from the seeds of Cucurbitaceae plants. *Acta Biochim Pol.* 1987; 34:395-406.
- Pranabendu M, Ramaswamy HS, Chang KS. Pumpkin (*Cucurbita maxima*) seed oil extraction using supercritical carbon dioxide and physicochemical properties of the oil. *J Food Eng.* 2009; 95:208-213.

- Queiroz-Neto A, Mataqueiro MI, Santana AE, Alessi AC. Toxicologic evaluation of acute and subacute oral administration of *Cucurbita maxima* seed extracts to rats and swine. *J Ethnopharmacol.* 1994; 43:45-51.
- Rauwald HW, Sauter M, Schilcher H. A 24-beta-ethyl-DELTA-7-sterylglucopyranoside from *Cucurbita pepo* seeds. *Phytochemistry* 1985; 24:2746-2748.
- Reindl J, Anliker MD, Karamloo F, Vieths S, Wüthrich B. Allergy caused by ingestion of zucchini (*Cucurbita pepo*): characterization of allergens and cross-reactivity to pollen and other foods. *J Allergy Clin Immunol.* 2000; 106:379-385.
- Roehrborn CG. Currently available treatment guidelines for men with lower urinary tract symptoms. *BJUI International, Suppl. 2.* 2008; 102:18-23.
- Ryan E, Galvin K, O'Connor TP, Maguire AR, O'Brien NM. Phytosterol, squalene, tocopherol content and fatty acid profile of selected seeds, grains, and legumes. *Plant Foods Hum Nutr.* 2007; 62:85-91.
- Rybal'tovskii OV. [On the discovery of cucurbitin--a component of pumpkin seed with anthelmintic action]. *Med Parazitol (Mosk).* 1966; 35:487-488. [Russian language]
- Sauter M, Schilcher H, Segebrecht S. "Pumpkin seed oil" and its adulteration. Testing for identity and purity of pumpkin seed oil with the aid of thin-layer chromatography. *Pharm. Ztg.* 1985, 130:73-75.
- Schiebel-Schlösser G, Friederich M. Kürbissamen in der Phytotherapie der BPH. *Z. Phytotherapie* 1998; 19:71-76.
- Schilcher H. *Cucurbita*-Species - Kurbis-Arten. *Z. Phytotherapie* 1986, 7:19-23.
- Schilcher H, Dunzendorfer U, Ascali F. Delta 7-sterole, das prostatotrope Wirkprinzip in Kürbissamen? *Urologe[B]* 1987; 27:316-319.
- Schleich S, Papaioannou M, Baniahmad A, Matusch R. Extracts from *Pygeum africanum* and other ethnobotanical species with antiandrogenic activity. *Planta Med.* 2006; 72:807-813.
- Schmandke H. Cucurbitacine mit antikrebswirkung in Gurken- und Kürbisgewächsen. *Ernährung* 2008; 2:222-226.
- Schmidlin CB, Kreuter MH. *Cucurbita pepo*. Möglicher Einfluss auf hormonelle Ungleichgewichte bei Inkontinenz. *Z. Phytotherapie* 2003; 3:16-18.
- Schuster W, Zipse W, Marquard R. Influence of Genotype and Place of Cultivation on Various Components of Oil Pumpkin Seeds (*Cucurbita pepo* L.). *Fette Seifen Anstrichmittel* 1983; 85:56-64.
- Scientific Opinion of the Panel on Food Additives and Nutrient Sources added to Food Selenious acid as a source of selenium added for nutritional purposes to food supplements 1 (Question No EFSA-Q-2006-278). Adopted on 19 March 2009. *EFSA J* 2009; 1009:1-17.
- Shu-Hwa S, Bao-Jo S, Yi-Hsun H, Yuan-Ching Y, Cheou-Pei M. Studies on the prophylactico-therapeutic effect of cucurbitine in experimental schistosomiasis Japonica in mice. *Scientia Sin.* 1962; 11:1527-1534.
- Sicilia T, Niemeyer HB, Honig DM, Metzler M. Identification and stereochemical characterization of lignans in flaxseed and pumpkin seeds. *J Agric Food Chem.* 2003; 51:1181-1188.
- Suphakarn VS, Yarnnon C, Ngunboonsri P. The effect of pumpkin seeds on oxalcrystalluria and urinary compositions of children in hyperendemic area. *Am J Clin Nutr.* 1987; 45:115-121.

- Suphiphat V, Morjaroen N, Pukboonme I, Ngunboonsri P, Lowhnoo T, Dhanamitta S. The effect of pumpkin seeds snack on inhibitors and promoters of urolithiasis in Thai adolescents. *J Med Assoc Thai*. 1993; 76:487-493.
- Tsai Y-S, Tong Y-C, Cheng J-T, Lee C-Ho. Pumpkin seed oil and phytosterol-F can block testosterone/prazosin-induced prostate growth in rats. *Urol Int* 2006; 77:269-274.
- Tsaknis J, Lalas S, Lazos ES. Characterization of crude and purified pumpkin seed oil, *Grasas & Aceites* 1997; 48:267-272.
- Vassiliou AG, Neumann GM, Condrón R, Polya GM. Purification and mass spectrometry-assisted sequencing of basic antifungal proteins from seeds of pumpkin (*Cucurbita maxima*). *Plant Sci*. 1998; 134:141-162.
- Vieths S, Lüttkopf D, Reindl J, Anliker MD, Wüthrich B, Ballmer-Weber BK. Allergens in celery and zucchini. *Allergy* 2002; 57:100-105.
- Vogel P. Studies on Pumpkin Seed Oil. *Fette Seifen Anstrichmittel* 1978, 80: 315-317.
- Wang HX, Ng TB. Isolation of cucurmoschin, a novel antifungal peptide abundant in arginine, glutamate and glycine residues from black pumpkin seeds. *Peptides* 2003; 24:969-972.
- Wang DC, Xiang H, Li D, Gao HY, Cai H, Wu LJ, Deng XM. Purine-containing cucurbitane triterpenoids from *Cucurbita pepo* cv dayangua. *Phytochemistry*. 2008; 69: 1434-1438.
- Weinkamer E. Erfahrungsbericht über die Verwendung von Kürbis-Granufink. *Phys-Diät Ther* 1964; 9:1-2.
- WHO Monographs on Selected Medicinal Plants, Volume 4. Semen Cucurbitae. World Health Organization, Geneva 2009, 83-91.
- Wichtl M. Cucurbitae semen. Pumpkin seed. In: Herbal Drugs and Phytopharmaceuticals. Medpharm GmbH Scientific Publisher, CRC Press, Stuttgart: 2004, 170-172.
- Winkler C, Wirleitner B, Schroecknadel K, Schennach H, Fuchs D. Extracts of pumpkin (*Cucurbita pepo* L.) Seeds suppress stimulated peripheral blood mononuclear cells in vitro. *Am J Immunol*. 2005; 1:6-11.
- Xanthopoulou MN, Nomikos T, Fragopoulou E, Antonopoulou S. Antioxidant and lipoxygenase inhibitory activities of pumpkin seed extracts. *Food Res Int* 2009; 42:641-646.
- Xia HC, Li F, Zhang ZC. Purification and characterization of Moschatin, a novel type I ribosome-inactivating protein from the mature seeds of pumpkin (*Cucurbita moschata*), and preparation of its immunotoxin against human melanoma cells. *Cell Res* 2003; 13:369-374.
- Yue QY, Jansson K. Herbal Drug Curbicin and Anticoagulant Effect with and without warfarin. Possible Related to the Vitamin E Component. *J An Geriatr Soc*. 2001; 49: 838.
- Zhao S, Guo YX, Liu QH, Wang HX, Ng TB. Lectins but not antifungal proteins exhibit anti-nematode activity. *Envir Toxicol Pharmacol* 2009; 28:265-268.
- Zdunczyk Z, Minakowski D, Frejnagel S, Flis M. Comparative study of the chemical composition and nutritional value of pumpkin seed cake, soybean meal and casein. *Nahrung*. 1999; 43:392-395.
- Zhang X, Ouyang J, Zhang Y, Tayalla B, Zhou X, Zhou S. Effect of the extracts of pumpkin seeds on the urodynamics of rabbits: an experimental study. *J Tongi Med. Univ*. 1994; 14: 4. 235-238.