

15 January 2013
EMA/HMPC/346742/2011
Committee on Herbal Medicinal Products (HMPC)

List of references supporting the assessment of *Juglans regia* L., folium

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.

Ahn C B, Song C H, Kim WH, Kim Y K. Effects of *Juglans sinensis* Dode extract and antioxidant on mercury chloride-induced acute renal failure in rabbits *J Ethnopharmacol*. 2002; 82:45/49

Agelet A, Vallès J. Studies on pharmaceutical ethnobotany in the region of Pallars (Pyrenees, Catalonia, Iberian Peninsula). Part I. General results and new or very rare medicinal plants. *J Ethnopharmacol*. 2001; 77:57-70.

Aithal KB, Kumar SMR, Nageshwar RB, Udupa N, Satish RBS. Juglone, a naphthoquinone from walnut, exerts cytotoxic and genotoxic effects against cultured melanoma tumor cells *Cell Biol Int*. 2009; 33:1039-1049.

Aithal BK, Sunil Kumar MR, Rao BN, Upadhyay R, Prabhu V, Shavi G, Arumugam K, Sajankila SP, Udupa N, Satyamoorthy K, Satish Rao BS. Evaluation of pharmacokinetic, biodistribution, pharmacodynamic, and toxicity profile of free juglone and its sterically stabilized liposomes. *J Pharm Sci*. 2011; 100:3517-3528.

Akhtar MS, Iqbal Z, Khan MN, Lateef M. Anthelmintic activity of medicinal plants with particular reference to their use in animals in the Indo-Pakistan subcontinent. *Small Rum Res* 2000;38:99-107.

Ali-Shtayeh MS, Abu Ghdeib SI Antifungal activity of plant extracts against dermatophytes. *Mycoses* 1999;42:665-672.

Almeida IF, Fernandes E, Lima JLFC, Costa PC, Fernanda Bahia M. Walnut (*Juglans regia*) leaf extracts are strong scavengers of pro-oxidant reactive species *Food Chem*. 2008; 106:1014-1020.

Altanlar N, Citoglu GS, Yilmaz BS. Antilisterial activity of some plants used in folk medicine *Pharm Biol*. 2006; 44:91-94.

Alvarez Arias BT Ichthyotoxic plants used in Spain. *J Ethnopharmacol*. 2000; 73:505-512.

Amaral JS, Seabra RM, Andrade PB, Valentao P, Pereira JA, Ferreres F. Phenolic profile in the quality control of walnut (*Juglans regia* L.) leaves. *Food Chemistry* 2004; 88:373-379.

Amaral JS, Valentão P, Andrade PB, Martins RC, Seabra RM. Do cultivar, geographical location and crop season influence phenolic profile of walnut leaves? *Molecules*. 2008;13:1321-1332.

An RB, Kim HC, Tian YH, Kim YC Free radical scavenging and hepatoprotective constituents from the leaves of *Juglans sinensis*. *Arch Pharm Res*. 2005; 28:529-533.

Anestål K, Prast-Nielsen S, Cenas N, Arnér ES. Cell death by SecTRAPs: thioredoxin reductase as a prooxidant killer of cells. *PLoS One* 2008; 3:e1846.

Arora S, Brits E, Kaur S, Kaur K, Sohi RS, Kumar S, Verschaeve L. Evaluation of genotoxicity of medicinal plant extracts by the comet and VITOTOX tests. *J Environ Pathol Toxicol Oncol*. 2005; 24: 193-200.

Asgary S, Parkhideh S, Solhpour A, Madani H, Mahzouni P, Rahimi P. Effect of ethanolic extract of *Juglans regia* L. on blood sugar in diabetes-induced rats. *J Med Food*. 2008; 11:533-538.

Ashri N, Gazi M. More unusual pigmentations of the gingiva. *Oral Surg Oral Med Oral Pathol*. 1990; 70:445-449.

Babula P, Adam V, Havel L, Kizek R. Noteworthy Secondary Metabolites Naphthoquinones – their Occurrence, Pharmacological Properties and Analysis *Curr Pharm Anal*. 2009; 5:47-68.

Babula P, Adam V, Havel L, Sladky Z, Kizek R. Naphthoquinones as allelochemical triggers of programmed cell death *Environ Exp Botany* 2009; 65:330–337.

Banerjee S, Magdum S, Kalena GP, Banerji A. Insect growth regulatory activity of naturally occurring quinones and their derivatives in *Dysdercus koenigii* Fabr. (Hem., Pyrrhocoridae) *J Appl Entomol*. 2001; 125:25–30.

Bayer E, Thutewohl M, Christner C, Tradler T, Osterkamp F, Waldmann H, Bayer P. Identification of hPin1 inhibitors that induce apoptosis in a mammalian Ras transformed cell line. *Chem Commun* 2005; 516-518. www.rsc.org/chemcomm DOI: 10.1039/b414037k

Beer R, Kaiser F, Schmidt K, Ammann B, Carraro G, Grisa E, Tinner W. Vegetation history of the walnut forests in Kyrgyzstan (Central Asia): natural or anthropogenic origin? *Quatern Sci Rev*. 2008; 27:621-632.

Bermejo-Bescós P, Martín-Aragón S, Jiménez-Aliaga KL, Ortega A, Molina MT, Buxaderas E, Orellana G, Csáky AG. In vitro antiamyloidogenic properties of 1,4-naphthoquinones. *Biochem Biophys Res Commun*. 2010; 400:169-174

Blanco E, Macía MJ, Morales R. Medicinal and veterinary plants of El Caurel (Galicia, northwest Spain). *J Ethnopharmacol*. 1999; 65:113-124.

Blumenthal M, (ed). Expanded German Commission E Monographs Walnut Leaf Integrative Medicine Communications, 2000: 401-403.

Blumenthal M. Herbal Medicine Expanded Commission E. Monographs. 1st ed. American Botanical Council. 2000, 401

Bundesanzeiger (BAZ) No 101. 01.06.1990 Juglandis folium In: [Rośliny Lecznicze w Fitoterapii.] Instytut Roślin i Przetworów Zielarskich. Poznań 1994, 375

Bonamonte D, Foti C, Angelini G. Hyperpigmentation and contact dermatitis due to *Juglans regia*. *Cont Dermatit*. 2001; 44:101-102.

Bonet MA, Parada M, Selga A, Vallès J. Studies on pharmaceutical ethnobotany in the regions of L'Alt Empordà and Les Guilleries (Catalonia, Iberian Peninsula). *J Ethnopharmacol*. 1999; 68:145-168.

- Bruneton J. Pharmacognosy, Phytochemistry, Medicinal Plants Lavoisier Publishing Inc, Intercept Ltd, London New York 1995.
- Bruni A, Ballero M, Poli F. Quantitative ethnopharmacological study of the Campidano Valley and Urzulei district, Sardinia, Italy. *J Ethnopharmacol.* 1997; 57:97-124.
- Buttery R G, Flath RA, Mon TR, Ling LC. Identification of germacrene D in walnut and fig leaf volatiles. *J Agric Food Chem.* 1986; 34: 820–822.
- Buttery RG, Flath RA, Mon TR, Ling LC. Identification of Germacrene D in Walnut and Fig Leaf Volatiles. *J Agric Food Chem.* 1986; 34:820-822.
- Carvalho M, Ferreira PJ, Mendes VS, Silva R, Pereira JA, Jerónimo C, Silva BM. Human cancer cell antiproliferative and antioxidant activities of *Juglans regia* L. *Food Chem Toxicol.* 2010; 48:441-447.
- Carnat A, Petitjean Freyytet C, Muller D, Lamaison L. Teneurs en principaux constituants de la feuille de noyer *Juglans regia* L. *Plantes Med Phytother.* 1993 ; 26:332-339.
- Cenas N, Prast S, Nivinskas H, Sarlauskas J, Arnér ES. Interactions of nitroaromatic compounds with the mammalian selenoprotein thioredoxin reductase and the relation to induction of apoptosis in human cancer cells. *J Biol Chem.* 2006; 281:5593-5603.
- Chao SH, Greenleaf AL, Price DH. Juglone, an inhibitor of the peptidyl-prolyl isomerase Pin1, also directly blocks transcription. *Nucleic Acids Res* 2001; 29: 767-773.
- Chen IJ, Lebetkin EH, Burka LT. Metabolism and disposition of juglone in male F344 rats *Xenobiotica* 2005; 35:1019–1034.
- Chobot V, Hadacek F. Iron and its complexation by phenolic cellular metabolites: from oxidative stress to chemical weapons. *Plant Signal Behav.* 2010; 5:4-8.
- Civelek HS, Çolak AM. Effects of Some Plant Extracts and Bensultap on *Trichoferus griseus* (Fabricius, 1792) (Coleoptera: Cerambycidae) *World J Agric Sci.* 4 2008; 4:721-725.
- Çitoğlu GS, Altanlar N. Antimicrobial activity of some plants used in folk medicine *Ankara Ecz. Fak. Derg.* 2003; 32:159-163,
- Clark AM. The use of larval stages of *Drosophila* in screening for some naturally occurring mutagens. *Mut Res* 1982; 2:89-97
- Cos P, Vlietinck AJ, Berghe DV, Maes L. Anti-infective potential of natural products: how to develop a stronger in vitro 'proof-of-concept'. *J Ethnopharmacol.* 2006; 106:290-302.
- Çoban T, Çitoglu G S, Sever B, Iscan M. Antioxidant Activities of Plants Used in Traditional Medicine in Turkey *Pharm Biol.* 2003; 41:608–613.
- Cruz-Vega DE, Verde-Star MJ, Salinas-González N, Rosales-Hernández B, Estrada-García I, Mendez-Aragón P, Carranza-Rosales P, González-Garza MT, Castro-Garza J. Antimycobacterial activity of *Juglans regia*, *Juglans mollis*, *Carya illinoensis* and *Bocconia frutescens*. *Phytother Res* 2008; 22:557-559.
- Deutschen Arzneibuch, 6. Ausgabe 1926 Folia Juglandis – Walnuss blätter
Decker's Verlag, Berlin 1941 Darmani, H., Nusayr, T. and Al-Hiyasat, A. Effects of extracts of miswak and derum on proliferation of Balb/C 3T3 fibroblasts and viability of cariogenic bacteria. *Int J Dent Hyg.* 2006; 4:62–66.
- Deutscher Arzneimittel-Codex Ergänzungsbuch zum Arzneibuch. Deutsches Apotheker Verlag, Stuttgart 2009, D-095: 1-23

- Dzhafarova RE, Garaev GSh, Dzhafarkulieva ZS. [Antidiabetic action of extract of *Juglans regia* L] [Russian] *Georgian Med News*. 2009; 170:110-114.
- Edenharder R, Tang X. Inhibition of the mutagenicity of 2-nitrofluorene, 3-nitrofluoranthene and 1-nitropyrene by flavonoids, coumarins, quinones and other phenolic compounds. *Food Chem. Toxicol.* 1997; **35**:357-372.
- EFSA SCIENTIFIC COOPERATION (ESCO) REPORT EFSA Compendium of botanicals that have been reported to contain toxic, addictive, psychotropic or other substances of concern *EFSA Journal* 2009; 7(9):281, 56.
- Eisen D. Disorders of pigmentation in the oral cavity. *Clin Dermatol.* 2000; 579-587.
- El Beyrouthy M, Arnold N, Delelis-Dusollier A, Dupont F. Plants used as remedies antirheumatic and antineuralgic in the traditional medicine of Lebanon. *J Ethnopharmacol.* 2008; 120:315-334.
- El-Hilaly J, Hmammouchi M, Lyoussi B. Ethnobotanical studies and economic evaluation of medicinal plants in Taounate province (Northern Morocco). *J Ethnopharmacol.* 2003; 86:149-158.
- Ercisli S, Esitken A, Turkkal C, Orhan E. The allelopathic effects of juglone and walnut leaf extracts on yield, growth, chemical and PNE compositions of strawberry cv. Fern *Plant Soil Environ.* 2005; 51: 283-287.
- Erdemoglu N, Küpeli E, Yeşilada E. Anti-inflammatory and antinociceptive activity assessment of plants used as remedy in Turkish folk medicine. *J Ethnopharmacol.* 2003; 89:123-1219.
- Evans WC. Trease and Evans Pharmacognosy. Sixteenth Edition. Saunders Elsevier, Edinburgh - London 2009.
- Farag MA. Headspace Analysis of Volatile Compounds in Leaves from the Juglandaceae (Walnut) Family *J Ess Oil Res.* 2008; 20: 323-327.
- Fila C, Metz C, van der Sluijs P. Juglone inactivates cysteine-rich proteins required for progression through mitosis. *J Biol Chem.* 2008; 283:21714-21724.
- Flora Europea Royal Botanic Garden Edinburgh *Juglans regia* L. Search results accessed 29. 04.2011
- Folia Juglandis Deutchen Arzneibuch 6. Ausgabe 1926 Decker's Verlag, Berlin 1941, 281-282.
- Frohne D. Heilpflanzenlexicon [Polish Translation] Ein Leitfaden auf wissenschaftlicher Grundlage. *Juglans regia* L. Stuttgart, 2006
- Gaivão I, Sierra LM, Comendador MA. The w/w+ SMART assay of *Drosophila melanogaster* detects the genotoxic effects of reactive oxygen species inducing compounds. *Mutat Res.* 1999; 440:139-145.
- Gazi MI. Unusual pigmentation of the gingiva. Report of two different types. *Oral Surg Oral Med Oral Pathol.* 1986; 62:646-649.
- German Commission E Monograph
- Bundesanzeiger (BAZ) No 101. 01.06.1990
- Gehrmann B, Koch W-G, Tschirch CO, Brinkmann H. Medicinal Herbs: A Compendium. Binghamton, NY 2005: 199
- Gholamreza K, Hossein B. Effects of walnut leaf aqueous extract on blood sugar and lipids in male diabetic rats. *Saudi Med J.* 2008; 29:1350-1352.

- Gião MS, Leitão I, Pereira A, Borges AB, Guedes CJ, Fernandes JC, Belo L, Santos-Silva A, Hogg TA, Pintado ME, F. Malcata X. Plant aqueous extracts: Antioxidant capacity *via* haemolysis and bacteriophage P22 protection *Food Control*. 2010; 21:633–638.
- Girzu M, Carnat A, Privat AM, Fialip J, Carnat AP, Lamaison JL. Sedative effect of walnut leaf extract and juglone, an isolated constituent. *Pharm Biol*. 1998; 36:280–286.
- Gruenwald J, Brendler T, Jaenicke C (Ed.). PDR for Herbal Medicines 3rd ed. Walnut. *Juglans regia* Medical Economics Co., Inc., Montvale, NJ. 2000:793-794.
- Gruenwald J, Brendler T, Jaenicke C (Ed.). PDR for Herbal Medicines, 4rd ed. Walnut. *Juglans regia* Thomson Medical Economics, Montvale NJ. 2004: 881-882.
- Guarrera PM. Traditional antihelmintic, antiparasitic and repellent uses of plants in Central Italy. *J Ethnopharmacol*. 1999; 68:183-192.
- Guarrera PM. Food medicine and minor nourishment in the folk traditions of Central Italy (Marche, Abruzzo and Latium). *Fitoterapia*. 2003; 74:515-544.
- Guarrera PM. Traditional phytotherapy in Central Italy (Marche, Abruzzo, and Latium). *Fitoterapia*. 2005a; 76:1-25.
- Guarrera PM, Forti G, Marignoli S. Ethnobotanical and ethnomedicinal uses of plants in the district of Acquapendente (Latium, Central Italy). *J Ethnopharmacol*. 2005b; 96:429-444.
- Haque R, Bin-Hafeez B, Parvez S, Pandey S, Sayeed I, Ali M, Raisuddin S. Aqueous extract of walnut (*Juglans regia* L.) protects mice against cyclophosphamide-induced biochemical toxicity. *Hum Exp Toxicol*. 2003; 22:473-480.
- Harada J. Allelopathy and toxicity to fish of aquatic weeds. www.agnet.org/library/bc/45016/
- Harman J. The toxicology of herbs in equine practice. *Clin Techn Equin Pract* 2002; 1:74-80.
- Hazra B, Das Sarma M, Sanyal U. Separation methods of quinonoid constituents of plants used in Oriental traditional medicines. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2004; 812:259-275.
- Hennig L, Christner C, Kipping M, Schelbert B, Rücknagel KP, Grabley S, Küllertz G, Fischer G. Selective inactivation of parvulin-like peptidyl-prolyl cis/trans isomerases by juglone. *Biochemistry* 1998; 37:5953-5960.
- Herr SM. Herb-Drug Interaction Handbook, 3rd Ed. Church Street Books, 2005, 53-54
- Inbaraj JJ, Chignell CF. Cytotoxic action of juglone and plumbagin: a mechanistic study using HaCaT keratinocytes. *Chem Res Toxicol* 2004; 17:55-62.
- Ji Y-B, Qu ZY, Zou X. Juglone-induced apoptosis in human gastric cancer SGC-7901 cells via the mitochondrial pathway. *Exp Toxicol Pathol*. 2009; doi:10.1016/j.etp.2009.09.010
- Ji Y, Zou X, Qu Z, Yan Q, Lu W. S-phase Arrest Induced by Juglone in Human Gastric Cancer SGC-7901 Cells <http://www.paper.edu.cn>
- Jones E, Hughes RE. A note on the ascorbic acid content of some trees and woody shrubs *Phytochemistry* 1984; 23:2366-2367.
- Juglone. National Toxicology Program. Summary of Data. <http://ntp.niehs.nih.gov/go/19336> Accessed 10.12.2010

- Kaltenrieder P, Procacci G, Vanni  re B, Tinner W. Vegetation and fire history of the Euganean Hills (Colli Euganei) as recorded by Lateglacial and Holocene sedimentary series from Lago della Costa (northeastern Italy) *Holocene* 2010; 20:679–695.
- Kaur K, Michael H, Arora S, H  rk  nen PL, Kumar S. Studies on correlation of antimutagenic and antiproliferative activities of *Juglans regia* L.: *J Environ Pathol Toxicol Oncol*. 2003; 22:59-67
- Klichowska M. An interesting botanical discovery at Pruszcz Gda  ski. *Pomorania Antiqua* 1971; 4:353-362.
- Kohlm  nzer S. Farmakognozja. Podr  cznik dla student  w farmacji. Folium Juglandis. PZWL, Warszawa 2000, 252.
- Kong Y, Zhang L, Yang Z, Han, Li H, Jiang H, Shen X. Natural product juglone targets three key enzymes from *Helicobacter pylori*: inhibition assay with crystal structure characterization. *Acta Pharm Sin*. 2008; 29:870-876
- Kot M, Karcz W, Zaborska W. 5-Hydroxy-1,4-naphthoquinone (juglone) and 2-hydroxy-1,4-naphthoquinone (lawsone) influence on jack bean urease activity: Elucidation of the difference in inhibition activity. *Bioorg Chem*. 2010; 38:132-137.
- K  lt  r S. Medicinal plants used in Kirklareli Province (Turkey). *J Ethnopharmacol*. 2007; 111:341-364.
- Leporatti ML, Ivancheva S. Preliminary comparative analysis of medicinal plants used in the traditional medicine of Bulgaria and Italy. *J Ethnopharmacol*. 2003; 87:123-142.
- Liu Y M, Xu Y P, Gao J M, Yang X P and Liu Y S. Analysis of volatile components from leaves of *Juglans regia* by GC/MS. *Acta Bot. Boreali-occidentalia Sin*. 2004; 24:1100–1102.
- Loacker K, Kofler W, Oberhuber W. Spread of walnut (*Juglans regia* L.) in an Alpine valley is correlated with climate warming. *Flora* 2007; 202:70-78.
-   uczak S,   wi  tek L, Zadernowski R. Phenolic acids in leaves and pericarpium of walnut *Juglans regia* L. *Acta Polon. Pharm*. 1989, 46:494-499.
- Madaus G. Lehrbuch der Biologischen Heilmittel. (1938). *Juglans regia*. Walnu  . Juglandaceae Available at: <http://www.henriettesherbal.com/eclectic/madaus/juglans.html>.
- Magdum S, Banerjee S, Kalena GP, Banerji A. Chemosterilant activity of naturally occurring quinones and their analogues in the red cotton bug, *Dysdercus koenigii* (Het., Pyrrhocoridae) *J Appl Ent*. 2001; 125:589-596.
- Magin PJ, Adams J, Pond CD, Smith W. Topical and oral CAM in acne: a review of the empirical evidence and a consideration of its context. *Complement Ther Med*. 2006; 14:62-76.
- Marking LL. Juglone (5-hydroxy-1,4-naphthoquinone) as a fish toxicant. *Trans Amer Fisheries Soc* 1970; 99: 510-514
- Martindale. The Complete Drug Reference The Pharmaceutical Press 2009 (Electronic version).
- Maruyama T, Furutani M. Archeal peptidyl prolyl cis-trans isomerases (PPIases) *Frontiers in Bioscience* 5, 821-836, September 1, 2000, 821 <http://www.bioscience.org/2000/d/maruyama/fulltext.htm>
- Ma  awska I, Bylka W, Widy-Tyszkiewicz E. Juglone content in the decoction/infusion of *Juglans regia* L. leaves by GC/MS analysis. Proceedings of the 8th Int Symposium on Chromatogr Nat Prod, May 17-20, 2012a, 124.

Matławska I, Bylka W, Widy-Tyszkiewicz E. Determination of juglone content from fresh and dry leaves of *Juglans regia* L. by GC/MS. *Food Chem Toxicol* . (in press) 2012b.

Mehrabian S, Majd A, Majd M. Antimicrobial effects of three plants (*Rubia tinctorum*, *Carthamus tinctorius* and *Juglans regia*) on some airborne microorganisms. *Aerobiologia* 2000; 16:455-458.

Mendonca C, Madan V, Austin S, Beck MH. Occupational contact urticaria from walnut associated with hand eczema. *Contact Dermatitis*. 2005; 53:173-174.

Miliauskas G, Venskutonis PR, van Beek TA. Screening of radical scavenging activity of some medicinal and aromatic plant extracts. *Food Chemistry* 2004; 85:231–237.

Miller L and Murray WJ (ed.). *Herbal Medicinals: A Clinician's Guide* Pharmaceutical Product Press, Haworth Press, New York, London 1998: 256, 270.

Min B-S, Miyashiro H, Hattori M. Inhibitory effects of quinones on RNase H activity associated with HIV-1 reverse transcriptase *Phytother Res*. 2002; 16: 57–S62.

Mohammadi J, Saadipour K, Delaviz H, Mohammadi B. Anti-diabetic effect of an alcoholic extract of *Juglans regia* in an animal model. *Turk J Med Sci* 2011; 41:1-7.

Monks TJ, Walker SE, Flynn LM, Conti CJ, DiGiovanni J. Epidermal ornithine decarboxylase induction and mouse skin tumor promotion by quinones. *Carcinogenesis*. 1990; 11:1795-801.

Montenegro RC, Araújo AJ, Molina MT, Marinho Filho JD, Rocha DD, López-Montero E, Goulart MO, Bento ES, Alves AP, Pessoa C, de Moraes MO, Costa-Lotufo LV. Cytotoxic activity of naphthoquinones with special emphasis on juglone and its 5-O-methyl derivative. *Chem Biol Interact*. 2010 Mar 30;184(3):439-48. Epub 2010 Feb 4.

Morant AV, Jørgensen K, Jørgensen Ch, Paquette SM, Sanchez-Perez R, Møller BL, Bak S. β -Glucosidases as detonators of plant chemical defense *Phytochemistry* 2008; 69:1795-1813. +

Mouhajir F, Hudson JB, Rejdali M, Towers GHN. Multiple antiviral activities of endemic medicinal plants used by Berber peoples of Morocco *Pharm Biol* 2001; 39:364–374.

Murakami K, Haneda M, Iwata S, Yoshino M. Effect of hydroxy substituent on the prooxidant action of naphthoquinone compounds. *Toxicol In Vitro*. 2010; 24:905-909.

Muto N, Inouye K, Inada A, Nakanishi T, Tan L. Inhibition of cytochrome P-450-linked monooxygenase systems by naphthoquinones. *Biochem Biophys Res Commun*. 1987; 146:487-494.

Nahrstedt A, Vetter U, Hammerschmidt FJ. Zur Kenntnis des Wasserdampfdestillates der Blätter von *Juglans regia* *Planta Med*. 1981; 42: 313-332.

Natural Medicines Comprehensive Database [Eleventh edition] English Walnut Therapeutic Research Faculty, Stockton CA 2009; 599-600

Neri I, Bianchi F, Giacomini F, Patrizi A. Acute irritant contact dermatitis due to *Juglans regia*. *Cont Dermat* 2006; 55:62-63.

O'Brien PJ. Molecular mechanisms of quinone cytotoxicity. *Chem Biol Interact*. 1991; 80:1-41.

Okada TA, Roberts E, Brodie AF. Mitotic abnormalities produced by juglone in Ehrlich ascites tumor cells. *Proc Soc Exp Biol Med*. 1967; 126:583-588.

Ożarowski A. *Juglans regia* – Orzech włoski. *Ziołolecznictwo Państwowy Zakład Wydawnictw Lekarskich*, Warszawa 1976, 133-134.

- Ożarowski A, Jaroniewski W. Rośliny lecznicze i ich praktyczne zastosowanie. Orzech włoski. Instytut Wydawniczy Związków Zawodowych, Warszawa 1987, 277-279.
- Öllinger K, Brunmark A. Effect of hydroxy substituent position on 1,4-naphthoquinone toxicity to rat hepatocytes. *J Biol Chem*. 1991; 266:21496-503.
- Özer Ö, Mutlu B, Kivçak B. Antityrosinase activity of some plant extracts and formulations containing ellagic acid. *Pharmac Biol*. 2007; 45:519-524.
- Pauli GF, Friesen JB, Gödecke T, Farnsworth NR, Glodny B. Occurrence of Progesterone and Related Animal Steroids in Two Higher Plants. *J Nat Prod*. 2010; 73:338-345.
- Pereira JA, Oliveira I, Sousa A, Valentão P, Andrade PB, Ferreira IC, Ferreres F, Bento A, Seabra R, Estevinho L. Walnut (*Juglans regia* L.) leaves: phenolic compounds, antibacterial activity and antioxidant potential of different cultivars. *Food Chem Toxicol*. 2007; 45:2287-2295.
- Perusquía M, Mendoza S, Bye R, Linares E, Mata R. Vasoactive effects of aqueous extracts from five Mexican medicinal plants on isolated rat aorta. *J Ethnopharmacol*. 1995; 46:63-69.
- Pharmacopée française* (Ph.Fr.X) Noyer (*Juglans regia*). Pour Preparations Homeopathiques AFSSAPS 2005, 1-4.
- Prasad RBN, Gülz PG. Surface waxes from leaves and fruits of walnut. *Phytochemistry* 1990; 29:2097-2099.
- Qadan F, Thewaini AJ, Ali DA, Afifi R, Elkhawad A, Matalka KZ. The antimicrobial activities of *Psidium guajava* and *Juglans regia* leaf extracts to acne- developing organisms. *Am J Chin Med*. 2005; 33,197-204.
- Quave CL, Pieroni A. Folk illness and healing in Arbëreshë Albanian and Italian communities of Lucania, southern Italy. *J Folklore Res*. 2005; 42:57–97.
- Receptariusz Zielarski. Zjednoczenie Przemysłu Zielarskiego Herbapol. Wydawnictwo Przemysłu Lekkiego i Spożywczego, Warszawa 1967, 141
- Reuter J, Merfort I, Schempp CM. Botanicals in dermatology: an evidence-based review. *Am J Clin Dermatol*. 2010;11:247- 67.
- Ross D, Thor H, Threadgill MD, Sandy MS, Smith MT, Moldéus P, Orrenius S. The role of oxidative processes in the cytotoxicity of substituted 1,4-naphthoquinones in isolated hepatocytes. *Arch Biochem Biophys*. 1986; 248:460-466.
- Schimpfky R. Unsere Heilpflanzen in Bild und Wort für Jedermann. Ihr Nutzen und ihre Anwendung in Haus und Familie. Walnussbaum. *Juglans regia* L. Hugo Bermühler Verlag, Berlin-Lichterfelde 1900, 24.
- Soderquist CJ. Juglone and allelopathy. *J Chem Educ*. 1973; 50:782-783
- Sugie S, Okamoto K, Rahman KM, Tanaka T, Kawai K, Yamahara J, Mori H. Inhibitory effects of plumbagin and juglone on azoxymethane-induced intestinal carcinogenesis in rats. *Cancer Lett*. 1998 May 15;127(1-2):177-83.
- Tahraoui A, El-Hilaly J, Israili ZH, Lyoussi B. Ethnopharmacological survey of plants used in the traditional treatment of hypertension and diabetes in south-eastern Morocco (Errachidia province). *J Ethnopharmacol*. 2007; 110:105-117.
- Tikkanen L, Matsushima T, Natori S, Yoshihira K. Mutagenicity of natural naphthoquinones and benzoquinones in the *Salmonella*/microsome test. *Mutat. Res*. 1983; 124:25–34.

Von Kiparski GR, Lee LS, Gillespie AR Occurrence and fate of the phytotoxin juglone in alley soils under black walnut trees. *J Environ Qual*. 2007; 36:709-717.

Vos RM, Van Ommen B, Hoekstein MS, De Goede JH, Van Bladeren PJ. Irreversible inhibition of rat hepatic glutathione S-transferase isoenzymes by a series of structurally related quinones. *Chem Biol Interact*. 1989;71:381-392.

Weir TL, Park S-W Vivanco JM. Biochemical and physiological mechanisms mediated by allelochemicals *Curr Opin Plant Biol*. 2004; 7:472–479

Weiss RF, Fintelman V. Herbal Medicine Thieme, Stuttgart, New York 2000: pp. 299, 386, 416.

Wester RC, Melendres J, Hui X, Cox R, Serranzana S, Zhai H, Quan D, Maibach HI. Human *in vivo* and *in vitro* hydroquinone topical bioavailability, metabolism, and disposition. *J Toxicol Environ Health, Part A*, 1998; 54:301–317.

Wichtl M. Juglandis folium. Walnut leaf In: Herbal Drugs and Phytopharmaceuticals. *Medpharm GmbH Scientific Publisher*, Stuttgart: 2004, 281-282.

Wichtl M. Juglandis folium. Walnut leaf In: Herbal Drugs and Phytopharmaceuticals. *Medpharm GmbH Scientific Publisher*, Stuttgart: 2009, 315-317.

Wren RC. Potter's New Cyclopaedia of Botanical Drugs and Preparations Walnut. *Juglans regia*, Linn. The Daniel Company Ltd. 1975: 315-316.

Wójcik E. Spektrofotometryczne oznaczanie zawartości juglonu w *Folium Juglandis*. [Spectrophotometric estimation of juglone contents in *Juglans* leaves] *Polish Farm Pol*. 1984; 40:523-525.

Wyk B-E, Wink M. *Juglans regia* (in) Medicinal Plants of the World Timber Press 2004; 183.