

Aronia Scientific Articles – Liver
Updated 2/8/22

Title	Authors	Reference	Reference URL
Aronia melanocarpa Prevents Alcohol-Induced Chronic Liver Injury via Regulation of Nrf2 Signaling in C57BL/6 Mice	Wang Z, Liu Y, Zhao X, Liu S, Liu Y, Wang D.	Oxid Med Cell Longev. 2020 Jan 8;2020:4054520. doi: 10.1155/2020/4054520. eCollection 2020.	Aronia melanocarpa Prevents Alcohol-Induced Chronic Liver Injury via Regulation of Nrf2 Signaling in C57BL/6 Mice (hindawi.com)
The Impact of a Polyphenol-Rich Extract from the Berries of Aronia melanocarpa L. on Collagen Metabolism in the Liver: A Study in an In Vivo Model of Human Environmental Exposure to Cadmium	Kozłowska M, Brzóška MM, Rogalska J, Galicka A.	Nutrients. 2020 Sep 10;12(9):2766. doi: 10.3390/nu12092766.	Nutrients Free Full-Text The Impact of a Polyphenol-Rich Extract from the Berries of Aronia melanocarpa L. on Collagen Metabolism in the Liver: A Study in an In Vivo Model of Human Environmental Exposure to Cadmium HTML (mdpi.com)
Protective Effects of Ligularia fischeri and Aronia melanocarpa Extracts on Alcoholic Liver Disease (In Vitro and In Vivo Study)	Pyun CW, Seo TS, Kim DJ, Kim TW, Bae JS.	Biomed Res Int. 2020 Apr 14;2020:9720387. doi: 10.1155/2020/9720387. eCollection 2020.	Protective Effects of Ligularia fischeri and Aronia melanocarpa Extracts on Alcoholic Liver Disease (In Vitro and In Vivo Study) (hindawi.com)
Extract from Aronia melanocarpa L. Berries Protects Against Cadmium-induced Lipid Peroxidation and Oxidative Damage to Proteins and DNA in the Liver: A Study using a Rat Model of Environmental Human Exposure to this Xenobiotic	Mężyńska M, Brzóška MM, Rogalska J, Galicka A.	Nutrients. 2019 Mar 31;11(4):758. doi: 10.3390/nu11040758.	Nutrients Free Full-Text Extract from Aronia melanocarpa L. Berries Protects Against Cadmium-induced Lipid Peroxidation and Oxidative Damage to Proteins and DNA in the Liver: A Study using a Rat Model of Environmental Human Exposure to this Xenobiotic HTML (mdpi.com)

Additive effect of walnut and chokeberry on regulation of antioxidant enzyme gene expression and attenuation of lipid peroxidation in d-galactose-induced aging-mouse model	Song EK, Park H, Kim HS.	Nutr Res. 2019 Oct;70:60-69. doi: 10.1016/j.nutres.2018.09.011. Epub 2018 Oct 4.	Additive effect of walnut and chokeberry on regulation of antioxidant enzyme gene expression and attenuation of lipid peroxidation in d-galactose-induced aging-mouse model - ScienceDirect
Extract from Aronia melanocarpa L. Berries Prevents Cadmium-Induced Oxidative Stress in the Liver: A Study in A Rat Model of Low-Level and Moderate Lifetime Human Exposure to this Toxic Metal	Meżyńska M, Brzóska MM, Rogalska J, Piłat-Marcinkiewicz B.	Nutrients. 2018 Dec 21;11(1):21. doi: 10.3390/nu11010021.	Extract from Aronia melanocarpa L. Berries Prevents Cadmium-Induced Oxidative Stress in the Liver: A Study in A Rat Model of Low-Level and Moderate Lifetime Human Exposure to this Toxic Metal (nih.gov)
Fruits of Black Chokeberry Aronia melanocarpa in the Prevention of Chronic Diseases	Jurikova T, Mlcek J, Skrovankova S, Sumczynski D, Sochor J, Hlavacova I, Snopek L, Orsavova J.	Molecules. 2017 Jun 7;22(6):944. doi: 10.3390/molecules22060944.	Fruits of Black Chokeberry Aronia melanocarpa in the Prevention of Chronic Diseases (nih.gov)
Aronia melanocarpa Extract Ameliorates Hepatic Lipid Metabolism through PPAR γ 2 Downregulation	Park CH, Kim JH, Lee EB, Hur W, Kwon OJ, Park HJ, Yoon SK.	PLoS One. 2017 Jan 12;12(1):e0169685. doi: 10.1371/journal.pone.0169685. eCollection 2017.	Aronia melanocarpa Extract Ameliorates Hepatic Lipid Metabolism through PPARγ2 Downregulation (nih.gov)
Anthocyanins Delay Ageing-Related Degenerative Changes in the Liver	Wei J, Zhang G, Zhang X, Xu D, Gao J, Fan J.	Plant Foods Hum Nutr. 2017 Dec;72(4):425-431. doi: 10.1007/s11130-017-0644-z.	Anthocyanins Delay Ageing-Related Degenerative Changes in the Liver SpringerLink
Anthocyanins in chokeberry and purple maize attenuate diet-induced metabolic syndrome in rats	Bhaswant M, Shafie SR, Mathai ML, Mouatt P, Brown L.	Nutrition. 2017 Sep;41:24-31. doi: 10.1016/j.nut.2016.12.009. Epub 2016 Dec 28.	Anthocyanins in chokeberry and purple maize attenuate diet-induced metabolic syndrome in rats - ScienceDirect
COMMERCIAL EXTRACT FROM ARONIA AS A MODULATOR OF ADHESIVE PROPERTIES OF FIBRINOGEN TREATED WITH	Olas B, Kontek B, Oleszek W, Stochmal A.	Acta Pol Pharm. 2016 Nov;73(6):1609-1613.	(PDF) Commercial extract from Aronia as a modulator of adhesive properties of fibrinogen treated with homocysteine and its thiolactone in vitro (researchgate.net)

HOMOCYSTEINE AND ITS THIOLACTONE IN VITRO			
Effect of Chokeberry Juice on N-Nitrosodiethylamine-Induced Rat Liver Carcinogenesis	Kujawska M, Kant P, Mayoral IH, Ignatowicz E, Sikora J, Oszmianski J, Czapski J, Jodynis-Liebert J.	J Environ Pathol Toxicol Oncol. 2016;35(4):317-331. doi: 10.1615/JEnvironPatholToxicolOncol.2016014030.	antioxidant, oxidative stress, polyphenols - Begell House Digital Library
Chokeberry attenuates the expression of genes related to de novo lipogenesis in the hepatocytes of mice with nonalcoholic fatty liver disease	Park H, Liu Y, Kim HS, Shin JH.	Nutr Res. 2016 Jan;36(1):57-64. doi: 10.1016/j.nutres.2015.10.010. Epub 2015 Oct 31.	Chokeberry attenuates the expression of genes related to de novo lipogenesis in the hepatocytes of mice with nonalcoholic fatty liver disease. - Abstract - Europe PMC
Effects of Aronia melanocarpa Fruit Juice on Isolated Rat Hepatocytes	Kondeva-Burdina M, Valcheva-Kuzmanova S, Markova T, Mitcheva M, Belcheva A.	Pharmacogn Mag. 2015 Oct;11(Suppl 4):S592-7. doi: 10.4103/0973-1296.172967.	Effects of Aronia melanocarpa Fruit Juice on Isolated Rat Hepatocytes. - Abstract - Europe PMC
Aronia melanocarpa (chokeberry) polyphenol-rich extract improves antioxidant function and reduces total plasma cholesterol in apolipoprotein E knockout mice	Kim B, Ku CS, Pham TX, Park Y, Martin DA, Xie L, Taheri R, Lee J, Bolling BW.	Nutr Res. 2013 May;33(5):406-13. doi: 10.1016/j.nutres.2013.03.001. Epub 2013 Apr 18.	Aronia melanocarpa (chokeberry) polyphenol-rich extract improves antioxidant function and reduces total plasma cholesterol in apolipoprotein E knockout mice - ScienceDirect
In vitro inhibition of cytochrome P450 3A4 by Aronia melanocarpa constituents	Bräunlich M, Christensen H, Johannesen S, Slimestad R, Wangensteen H, Malterud KE, Barsett H.	Planta Med. 2013 Jan;79(2):137-41. doi: 10.1055/s-0032-1328055. Epub 2012 Dec 18.	Thieme E-Journals - Planta Medica / Abstract (thieme-connect.com)

Chokeberry (<i>Aronia melanocarpa</i>) juice modulates 7,12-dimethylbenz[a]anthracene induced hepatic but not mammary gland phase I and II enzymes in female rats	Szafer H, Krajka-Kuźniak V, Ignatowicz E, Adamska T, Baer-Dubowska W.	Environ Toxicol Pharmacol. 2011 Mar;31(2):339-46. doi: 10.1016/j.etap.2010.12.006. Epub 2011 Jan 18.	Chokeberry (<i>Aronia melanocarpa</i>) juice modulates 7,12-dimethylbenz[a]anthracene induced hepatic but not mammary gland phase I and II enzymes in female rats - ScienceDirect
Protective effect of chokeberry on chemical-induced oxidative stress in rat	Kujawska M, Ignatowicz E, Ewertowska M, Oszmiański J, Jodynis-Liebert J.	Hum Exp Toxicol. 2011 Mar;30(3):199-208. doi: 10.1177/0960327110371697. Epub 2010 May 20.	Protective effect of chokeberry on chemical-induced oxidative stress in rat - Małgorzata Kujawska, Ewa Ignatowicz, Małgorzata Ewertowska, Jan Oszmiański, Jadwiga Jodynis-Liebert, 2011 (sagepub.com)
<i>Aronia</i> plants: a review of traditional use, biological activities, and perspectives for modern medicine	Kokotkiewicz A, Jaremicz Z, Luczkiewicz M.	J Med Food. 2010 Apr;13(2):255-69. doi: 10.1089/jmf.2009.0062.	Aronia Plants: A Review of Traditional Use, Biological Activities, and Perspectives for Modern Medicine Journal of Medicinal Food (liebertpub.com)
Effect of Chokeberry (<i>Aronia melanocarpa</i>) juice on the metabolic activation and detoxication of carcinogenic N-nitrosodiethylamine in rat liver	Krajka-Kuźniak V, Szafer H, Ignatowicz E, Adamska T, Oszmiański J, Baer-Dubowska W.	J Agric Food Chem. 2009 Jun 10;57(11):5071-7. doi: 10.1021/jf803973y.	Effect of Chokeberry (<i>Aronia melanocarpa</i>) Juice on the Metabolic Activation and Detoxication of Carcinogenic N-Nitrosodiethylamine in Rat Liver Journal of Agricultural and Food Chemistry (acs.org)
Ingestion of black chokeberry fruit extract leads to intestinal and systemic changes in a rat model of prediabetes and hyperlipidemia	Jurgoński A, Juśkiewicz J, Zduńczyk Z.	Plant Foods Hum Nutr. 2008 Dec;63(4):176-82. doi: 10.1007/s11130-008-0087-7. Epub 2008 Aug 23.	Ingestion of Black Chokeberry Fruit Extract Leads to Intestinal and Systemic Changes in a Rat Model of Prediabetes and Hyperlipidemia SpringerLink
Current knowledge of <i>Aronia melanocarpa</i> as a medicinal plant	Valcheva-Kuzmanova SV, Belcheva A.	Folia Med (Plovdiv). 2006;48(2):11-7.	Current knowledge of <i>Aronia melanocarpa</i> as a medicinal plant - PubMed (nih.gov)
Protective effect of <i>Aronia melanocarpa</i> fruit juice pretreatment in a model of carbon tetrachloride-induced hepatotoxicity in rats	Valcheva-Kuzmanova SV, Popova PB, Galunska BT, Belcheva A.	Folia Med (Plovdiv). 2006;48(2):57-62.	Protective effect of <i>Aronia melanocarpa</i> fruit juice pretreatment in a model of carbon tetrachloride-induced hepatotoxicity in rats - PubMed (nih.gov)

Hepatoprotective effect of the natural fruit juice from Aronia melanocarpa on carbon tetrachloride-induced acute liver damage in rats	Valcheva-Kuzmanova S, Borisova P, Galunska B, Krasnaliev I, Belcheva A.	Exp Toxicol Pathol. 2004 Dec;56(3):195-201. doi: 10.1016/j.etp.2004.04.012.	Hepatoprotective effect of the natural fruit juice from Aronia melanocarpa on carbon tetrachloride-induced acute liver damage in rats - ScienceDirect
[Antioxidant properties of a leaf extract from Aronia (Aronia melanocarpa) containing proanthocyanidins]	Ipatova OM, Prozorovskaia NN, Rusina IF, Prozorovskii VN.	Biomed Khim. 2003 Mar-Apr;49(2):165-76.	[Antioxidant properties of a leaf extract from Aronia (Aronia melanocarpa) containing proanthocyanidins] - PubMed (nih.gov)
Effect of anthocyanins on selected biochemical parameters in rats exposed to cadmium	Kowalczyk E, Kopff A, Fijałkowski P, Kopff M, Niedworok J, Błaszczuk J, Kedziora J, Tyślerowicz P.	Acta Biochim Pol. 2003;50(2):543-8.	D:\ACTA\2-2003\kowalczyk.vp (actabp.pl)
Effect of food products on endogenous generation of N-nitrosamines in rats	Atanasova-Goranova VK, Dimova PI, Pevicharova GT.	Br J Nutr. 1997 Aug;78(2):335-45. doi: 10.1079/bjn19970151.	Effect of food products on endogenous generation of n-nitrosamines in rats British Journal of Nutrition Cambridge Core
Current knowledge of Aronia melanocarpa as a medicinal plant	Valcheva-Kuzmanova SV, Belcheva A.	Folia Med (Plovdiv). 2006;48(2):11-7.	Current knowledge of Aronia melanocarpa as a medicinal plant - PubMed (nih.gov)
Gut Microbiota Modulation by Polyphenols from Aronia melanocarpa of LPS-Induced Liver Diseases in Rats	Kong Y, Yan T, Tong Y, Deng H, Tan C, Wan M, Wang M, Meng X, Wang Y.	J Agric Food Chem. 2021 Mar 24;69(11):3312-3325. doi: 10.1021/acs.jafc.0c06815. Epub 2021 Mar 10.	Gut Microbiota Modulation by Polyphenols from Aronia melanocarpa of LPS-Induced Liver Diseases in Rats Journal of Agricultural and Food Chemistry (acs.org)

Efficacy and Safety of Aronia, Red Ginseng, Shiitake Mushroom, and Nattokinase Mixture on Insulin Resistance in Prediabetic Adults: A Randomized, Double-Blinded, Placebo-Controlled Trial	Park S, Kim CJ, Ha KC, Baek HI, Yang HJ, Kim MJ, Park SJ.	Foods. 2021 Jul 5;10(7):1558. doi: 10.3390/foods10071558.	Efficacy and Safety of Aronia, Red Ginseng, Shiitake Mushroom, and Nattokinase Mixture on Insulin Resistance in Prediabetic Adults: A Randomized, Double-Blinded, Placebo-Controlled Trial (nih.gov)
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