

March and April 2022 Aronia Publications

Title	Authors	Citation	URL	Comments
The effect of high-power ultrasound pretreatment on drying efficiency and bioactive compounds of chokeberry (<i>Aronia melanocarpa</i> L.)	Görgüç A, Gençdağ E, Demirci K, Vayiç A, Yılmaz FM.	Food Sci Technol Int. 2022 Apr 18;10820132221094787. doi: 10.1177/10820132221094787. Online ahead of print.	The effect of high-power ultrasound pretreatment on drying efficiency and bioactive compounds of chokeberry (<i>Aronia melanocarpa</i> L.) - Ahmet Görgüç, Esra Gençdağ, Kardelen Demirci, Aylin Vayiç, Fatih Mehmet Yılmaz, 2022 (sagepub.com)	Ultrasonic energy was shown to reduce drying times and required energy input for aronia berries
Phenol metabolic fingerprint and selection of intake biomarkers after acute and sustained consumption of red-fleshed apple versus common apple in humans. The AppleCOR study	Macià A, Romero MP, Yuste S, Ludwig I, Pedret A, Valls RM, Salamanca P, Solà R, José Motilva M, Rubió L.	Food Chem. 2022 Aug 1;384:132612. doi: 10.1016/j.foodchem.2022.132612. Epub 2022 Mar 2.	Phenol metabolic fingerprint and selection of intake biomarkers after acute and sustained consumption of red-fleshed apple versus common apple in humans. The AppleCOR study - ScienceDirect	Study focused on bioavailability of anthocyanins from red fleshed apples. However, they concluded that regular apples infused with aronia berry provided superior anthocyanin bioavailability over red fleshed apples.
De novo assembly of a fruit transcriptome set identifies AmMYB10 as a key regulator of anthocyanin biosynthesis in <i>Aronia melanocarpa</i>	Mahoney JD, Wang S, Iorio LA, Wegrzyn JL, Dorris M, Martin D, Bolling BW, Brand MH, Wang H.	BMC Plant Biol. 2022 Mar 25;22(1):143. doi: 10.1186/s12870-022-03518-8.	De novo assembly of a fruit transcriptome set identifies AmMYB10 as a key regulator of anthocyanin biosynthesis in <i>Aronia melanocarpa</i> - PMC (nih.gov)	These researchers used a transient expression assay to confirm a specific gene, AmMYB10, that induces anthocyanin biosynthesis.
Optimization of the ultrasound-assisted extraction of	WatreLOT AA, Bouska L.	Food Chem. 2022 Mar 17;386:132703. doi: 10.1016/j.foodchem.2022.	Optimization of the ultrasound-assisted extraction of polyphenols from <i>Aronia</i> and grapes - ScienceDirect	Researchers found high power sonication was effective at releasing

polyphenols from Aronia and grapes		132703. Online ahead of print.		color, phenolics, tannins from aronia berries
Aronia melanocarpa (Michx.) Elliott. attenuates dextran sulfate sodium-induced Inflammatory Bowel Disease via regulation of inflammation-related signaling pathways and modulation of the gut microbiota	Li Y, Nguepi Tsopmeji IS, Diao Z, Xiao H, Wang X, Jin Z, Song H.	J Ethnopharmacol. 2022 Jun 28;292:115190. doi: 10.1016/j.jep.2022.115190. Epub 2022 Mar 16.	Aronia melanocarpa (Michx.) Elliott. attenuates dextran sulfate sodium-induced Inflammatory Bowel Disease via regulation of inflammation-related signaling pathways and modulation of the gut microbiota - ScienceDirect	Research concluded that aronia extract could have significant therapeutic potential against inflammatory bowel disease due to antioxidant and anti-inflammatory capacities and its ability to restore gut microbiota balance.
Red-Fleshed Apples Rich in Anthocyanins and White-Fleshed Apples Modulate the Aorta and Heart Proteome in Hypercholesterolaemic Rats: The AppleCOR Study	Catalán Ú, Pedret A, Yuste S, Rubió L, Piñol C, Sandoval-Ramírez BA, Companys J, Foguet E, Herrero P, Canela N, Motilva MJ, Solà R.	Nutrients. 2022 Feb 28;14(5):1047. doi: 10.3390/nu14051047.	Red-Fleshed Apples Rich in Anthocyanins and White-Fleshed Apples Modulate the Aorta and Heart Proteome in Hypercholesterolaemic Rats: The AppleCOR Study - PMC (nih.gov)	Research focused on apple health benefits. However, it also showed that aronia extract significantly regulated proteins involved in cellular structure as well as downregulating proteins involved in cellular signalling pathways.
Antiviral activity of plant juices and green tea against SARS-CoV-2 and influenza virus	Eggers M, Jungke P, Wolking V, Bauer R, Kessler U, Frank B.	Phytother Res. 2022 Mar 1. doi: 10.1002/ptr.7431. Online ahead of print.	Antiviral activity of plant juices and green tea against SARS-CoV-2 and influenza virus - Eggers - - Phytotherapy Research - Wiley Online Library	Various plant juices were tested against a coronavirus, influenza, and adenovirus. The research suggested that used as an oral rinse, aronia juice may reduce viral loads in the oral cavity.