

The mitophagy activator urolithin A is safe and induces mitochondrial and cellular health in humans

Nature Metabolism

1, 595-603

DOI: [10.1038/s42255-019-0073-4](https://doi.org/10.1038/s42255-019-0073-4)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Demystifying the manipulation of host immunity, metabolism, and extraintestinal tumors by the gut microbiome. <i>Signal Transduction and Targeted Therapy</i> , 2019, 4, 41.	7.1	150
2	Mitocellular communication: Shaping health and disease. <i>Science</i> , 2019, 366, 827-832.	6.0	154
3	Mitochondrial oxidative capacity and NAD ⁺ biosynthesis are reduced in human sarcopenia across ethnicities. <i>Nature Communications</i> , 2019, 10, 5808.	5.8	159
4	Rapamycin Is Not Protective against Ischemic and Cisplatin-Induced Kidney Injury. <i>Biochemistry (Moscow)</i> , 2019, 84, 1502-1512.	0.7	9
5	Dysregulation of amyloid precursor protein impairs adipose tissue mitochondrial function and promotes obesity. <i>Nature Metabolism</i> , 2019, 1, 1243-1257.	5.1	39
6	Outstanding Questions in Mitophagy: What We Do and Do Not Know. <i>Journal of Molecular Biology</i> , 2020, 432, 206-230.	2.0	147
7	Monitoring autophagy in cancer: From bench to bedside. <i>Seminars in Cancer Biology</i> , 2020, 66, 12-21.	4.3	31
8	Mitophagy and Neuroprotection. <i>Trends in Molecular Medicine</i> , 2020, 26, 8-20.	3.5	246
9	Measuring biological aging in humans: A quest. <i>Aging Cell</i> , 2020, 19, e13080.	3.0	364
10	A Review of the Role of the Gut Microbiome in Personalized Sports Nutrition. <i>Frontiers in Nutrition</i> , 2019, 6, 191.	1.6	76
11	Is anti-ageing drug discovery becoming a reality?. <i>Expert Opinion on Drug Discovery</i> , 2020, 15, 135-138.	2.5	14
12	Pomegranate derivative urolithin A enhances vitamin D receptor signaling to amplify serotonin-related gene induction by 1,25-dihydroxyvitamin D. <i>Biochemistry and Biophysics Reports</i> , 2020, 24, 100825.	0.7	5
13	Gastrointestinal biotransformation of phytochemicals: Towards futuristic dietary therapeutics and functional foods. <i>Trends in Food Science and Technology</i> , 2020, 106, 64-77.	7.8	19
14	Sarcopenia in chronic liver disease: mechanisms and countermeasures. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G241-G257.	1.6	33
15	<i>Lythrum salicaria</i> Ellagitannins Stimulate IPEC-J2 Cells Monolayer Formation and Inhibit Enteropathogenic <i>Escherichia coli</i> Growth and Adhesion. <i>Journal of Natural Products</i> , 2020, 83, 3614-3622.	1.5	4
16	Pomegranate Metabolites Impact Tryptophan Metabolism in Humans and Mice. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa165.	0.1	12
17	Pharmacological targeting of MCL-1 promotes mitophagy and improves disease pathologies in an Alzheimer's disease mouse model. <i>Nature Communications</i> , 2020, 11, 5731.	5.8	94
18	Mitochondrial Targeting of Probes and Therapeutics to the Powerhouse of the Cell. <i>Bioconjugate Chemistry</i> , 2020, 31, 2650-2667.	1.8	27

#	ARTICLE	IF	CITATIONS
19	Ellagic Acid-Derived Urolithins as Modulators of Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-15.	1.9	65
20	Postbiotics—A Step Beyond Pre- and Probiotics. <i>Nutrients</i> , 2020, 12, 2189.	1.7	331
21	Ellagic Acid and Its Microbial Metabolite Urolithin A Alleviate Diet-Induced Insulin Resistance in Mice. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e2000091.	1.5	23
22	Urolithin-A attenuates neurotoxoplasmosis and alters innate response towards predator odor. <i>Brain, Behavior, & Immunity - Health</i> , 2020, 8, 100128.	1.3	6
23	Clinical trials in mitochondrial disorders, an update. <i>Molecular Genetics and Metabolism</i> , 2020, 131, 1-13.	0.5	44
24	Urolithins in Human Breast Milk after Walnut Intake and Kinetics of <i>Gordonibacter</i> Colonization in Newly Born: The Role of Mothers' Urolithin Metabotypes. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 12606-12616.	2.4	14
25	Data-driven microbiota biomarker discovery for personalized drug therapy of cardiovascular disease. <i>Pharmacological Research</i> , 2020, 161, 105225.	3.1	5
26	Intimate Relationships—Mitochondria and Ageing. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7580.	1.8	20
28	Molecular mechanisms and clinical implications of multiple forms of mitophagy in the heart. <i>Cardiovascular Research</i> , 2021, 117, 2730-2741.	1.8	26
29	Mitophagy: A New Player in Stem Cell Biology. <i>Biology</i> , 2020, 9, 481.	1.3	15
30	Mitophagy and the Brain. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9661.	1.8	32
31	Targeting Mitophagy in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 78, 1273-1297.	1.2	6
32	Microencapsulated pomegranate peel extract induces mitochondrial complex IV activity and prevents mitochondrial cristae alteration in brown adipose tissue in mice fed on a high-fat diet. <i>British Journal of Nutrition</i> , 2021, 126, 825-836.	1.2	14
33	Targeting Mitochondrial Network Architecture in Down Syndrome and Aging. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3134.	1.8	23
34	Mitophagy during development and stress in <i>C. elegans</i> . <i>Mechanisms of Ageing and Development</i> , 2020, 189, 111266.	2.2	13
35	Treating age-related multimorbidity: the drug discovery challenge. <i>Drug Discovery Today</i> , 2020, 25, 1403-1415.	3.2	21
36	Biotransformation of dietary phytoestrogens by gut microbes: A review on bidirectional interaction between phytoestrogen metabolism and gut microbiota. <i>Biotechnology Advances</i> , 2020, 43, 107576.	6.0	40
37	Polyphenols as Caloric Restriction Mimetics Regulating Mitochondrial Biogenesis and Mitophagy. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 536-550.	3.1	68

#	ARTICLE	IF	CITATIONS
38	Where to Look into the Puzzle of Polyphenols and Health? The Postbiotics and Gut Microbiota Associated with Human Metabotypes. <i>Molecular Nutrition and Food Research</i> , 2020, 64, e1900952.	1.5	170
39	Mitochondrial Diseases: Hope for the Future. <i>Cell</i> , 2020, 181, 168-188.	13.5	243
40	Dysregulated iron metabolism in <i>C. elegans</i> catp-6/ATP13A2 mutant impairs mitochondrial function. <i>Neurobiology of Disease</i> , 2020, 139, 104786.	2.1	30
41	Urolithin A-induced mitophagy suppresses apoptosis and attenuates intervertebral disc degeneration via the AMPK signaling pathway. <i>Free Radical Biology and Medicine</i> , 2020, 150, 109-119.	1.3	80
42	Regulation and roles of mitophagy at synapses. <i>Mechanisms of Ageing and Development</i> , 2020, 187, 111216.	2.2	37
43	Mitophagy and Its Contribution to Metabolic and Aging-Associated Disorders. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 906-927.	2.5	35
44	Urolithin B, a gut microbiota metabolite, protects against myocardial ischemia/reperfusion injury via p62/Keap1/Nrf2 signaling pathway. <i>Pharmacological Research</i> , 2020, 153, 104655.	3.1	83
45	Urolithin A exerts antiobesity effects through enhancing adipose tissue thermogenesis in mice. <i>PLoS Biology</i> , 2020, 18, e3000688.	2.6	84
46	From Association to Causality: the Role of the Gut Microbiota and Its Functional Products on Host Metabolism. <i>Molecular Cell</i> , 2020, 78, 584-596.	4.5	177
47	Mitophagy: An Emerging Role in Aging and Age-Associated Diseases. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 200.	1.8	220
48	MitophAging: Mitophagy in Aging and Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 239.	1.8	87
49	Molecular mechanisms of mitophagy and its roles in neurodegenerative diseases. <i>Pharmacological Research</i> , 2021, 163, 105240.	3.1	30
50	Metabolites of the ellagitannin, geraniin inhibit human ACE; <i>in vitro</i> and <i>in silico</i> evidence. <i>International Journal of Food Sciences and Nutrition</i> , 2021, 72, 470-477.	1.3	8
51	They eat, what we eat, they digest, what we ingest: the microbiome and the vulnerable plaque. <i>Cardiovascular Research</i> , 2021, 117, 333-335.	1.8	1
52	Implication of the Gut Microbiota in Metabolic Inflammation Associated with Nutritional Disorders and Obesity. <i>Molecular Nutrition and Food Research</i> , 2021, 65, e1900481.	1.5	8
53	Comparative studies of urolithins and their phase II metabolites on macrophage and neutrophil functions. <i>European Journal of Nutrition</i> , 2021, 60, 1957-1972.	1.8	30
55	Mitochondrial biogenesis and mitophagy. , 2021, , 35-90.		2
56	Main drivers of (poly)phenol effects on human health: metabolite production and/or gut microbiota-associated metabotypes?. <i>Food and Function</i> , 2021, 12, 10324-10355.	2.1	58

#	ARTICLE	IF	CITATIONS
57	Importance of Mitochondrial Quality Control in Parkinson's Disease: The Potential Interplay of Mitochondrial Unfolded Protein Response and Mitophagy. , 2021, , 103-131.		0
58	Modulation of Autophagy: A Novel "Rejuvenation" Strategy for the Aging Liver. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-30.	1.9	9
59	Pharmacological Therapy Determines the Gut Microbiota Modulation by a Pomegranate Extract Nutraceutical in Metabolic Syndrome: A Randomized Clinical Trial. Molecular Nutrition and Food Research, 2021, 65, e2001048.	1.5	22
60	Targeting mitochondrial dysfunction with small molecules in intervertebral disc aging and degeneration. GeroScience, 2021, 43, 517-537.	2.1	35
61	Immunomodulatory Role of Urolithin A on Metabolic Diseases. Biomedicines, 2021, 9, 192.	1.4	39
62	Could mitochondria help athletes to make gains?. Nature, 2021, 592, S7-S9.	13.7	1
63	Approaching precision medicine by tailoring the microbiota. Mammalian Genome, 2021, 32, 206-222.	1.0	3
64	Urolithin A improves muscle function by inducing mitophagy in muscular dystrophy. Science Translational Medicine, 2021, 13, .	5.8	93
65	Nutritional Mediators of Cellular Decline and Mitochondrial Dysfunction in Older Adults. Geriatrics (Switzerland), 2021, 6, 37.	0.6	3
66	Mitophagy in Human Diseases. International Journal of Molecular Sciences, 2021, 22, 3903.	1.8	91
67	Nanoparticles that do not compete with endogenous ligands " Molecular characterization in vitro, acute safety in canine, and interspecies pharmacokinetics modeling to humans. Journal of Controlled Release, 2021, 332, 64-73.	4.8	3
68	Probiotics, Photobiomodulation, and Disease Management: Controversies and Challenges. International Journal of Molecular Sciences, 2021, 22, 4942.	1.8	31
69	Natural products as geroprotectors: An autophagy perspective. Medicinal Research Reviews, 2021, 41, 3118-3155.	5.0	9
70	Anthracycline chemotherapy-mediated vascular dysfunction as a model of accelerated vascular aging. Aging and Cancer, 2021, 2, 45-69.	0.5	14
71	Polyphenols of the Mediterranean Diet and Their Metabolites in the Prevention of Colorectal Cancer. Molecules, 2021, 26, 3483.	1.7	29
72	Urolithin A Protects Chondrocytes From Mechanical Overloading-Induced Injuries. Frontiers in Pharmacology, 2021, 12, 703847.	1.6	12
73	The Link between Oxidative Stress, Redox Status, Bioenergetics and Mitochondria in the Pathophysiology of ALS. International Journal of Molecular Sciences, 2021, 22, 6352.	1.8	47
74	Nutraceuticals in the Prevention and Treatment of the Muscle Atrophy. Nutrients, 2021, 13, 1914.	1.7	23

#	ARTICLE	IF	CITATIONS
75	Urolithins: The Gut Based Polyphenol Metabolites of Ellagitannins in Cancer Prevention, a Review. <i>Frontiers in Nutrition</i> , 2021, 8, 647582.	1.6	57
76	Direct supplementation with Urolithin A overcomes limitations of dietary exposure and gut microbiome variability in healthy adults to achieve consistent levels across the population. <i>European Journal of Clinical Nutrition</i> , 2022, 76, 297-308.	1.3	38
77	In-utero exposure to HT-2 toxin affects meiotic progression and early oogenesis in foetal oocytes by increasing oxidative stress. <i>Environmental Pollution</i> , 2021, 279, 116917.	3.7	3
78	Natural products as pharmacological modulators of mitochondrial dysfunctions for the treatments of Alzheimer's disease: A comprehensive review. <i>European Journal of Medicinal Chemistry</i> , 2021, 218, 113401.	2.6	12
79	Anti-Aging Effect of Urolithin A on Bovine Oocytes In Vitro. <i>Animals</i> , 2021, 11, 2048.	1.0	4
80	DNA methylation-based age clocks: From age prediction to age reversion. <i>Ageing Research Reviews</i> , 2021, 68, 101314.	5.0	60
81	Mitophagy Regulates Neurodegenerative Diseases. <i>Cells</i> , 2021, 10, 1876.	1.8	24
82	Impact of the Natural Compound Urolithin A on Health, Disease, and Aging. <i>Trends in Molecular Medicine</i> , 2021, 27, 687-699.	3.5	166
83	The Present and Future of Mitochondrial-Based Therapeutics for Eye Disease. <i>Translational Vision Science and Technology</i> , 2021, 10, 4.	1.1	7
84	Mitochondrial Dynamics and Mitophagy in Skeletal Muscle Health and Aging. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8179.	1.8	93
85	Paradigm shift in gastrointestinal surgery ~ combating sarcopenia with prehabilitation: Multimodal review of clinical and scientific data. <i>World Journal of Gastrointestinal Surgery</i> , 2021, 13, 734-755.	0.8	14
86	Diabetes and Alzheimer's Disease: Might Mitochondrial Dysfunction Help Deciphering the Common Path?. <i>Antioxidants</i> , 2021, 10, 1257.	2.2	29
87	Selective Autophagy as a Potential Therapeutic Target in Age-Associated Pathologies. <i>Metabolites</i> , 2021, 11, 588.	1.3	1
88	Effects of Urolithin A on Mitochondrial Parameters in a Cellular Model of Early Alzheimer Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8333.	1.8	27
89	Autophagy in healthy aging and disease. <i>Nature Aging</i> , 2021, 1, 634-650.	5.3	467
90	Urolithin A suppresses glucolipototoxicity-induced ER stress and TXNIP/NLRP3/IL-1 β inflammation signal in pancreatic β cells by regulating AMPK and autophagy. <i>Phytomedicine</i> , 2021, 93, 153741.	2.3	28
91	A mechanistic insight into the biological activities of urolithins as gut microbial metabolites of ellagitannins. <i>Phytotherapy Research</i> , 2022, 36, 112-146.	2.8	26
92	Dietary bioactive compounds as modulators of mitochondrial function. <i>Journal of Nutritional Biochemistry</i> , 2021, 96, 108768.	1.9	13

#	ARTICLE	IF	CITATIONS
93	Ecocatalysed Hurler reaction: Synthesis of urolithin derivatives as new potential RAGE antagonists with anti-ageing properties. <i>Sustainable Chemistry and Pharmacy</i> , 2021, 23, 100518.	1.6	2
94	Effects of Chinese herbal medicines on lifespan in <i>Drosophila</i> . <i>Experimental Gerontology</i> , 2021, 154, 111514.	1.2	2
95	Autophagy and the hallmarks of aging. <i>Ageing Research Reviews</i> , 2021, 72, 101468.	5.0	98
96	Health promoting properties and sensory characteristics of phytochemicals in berries and leaves of sea buckthorn (<i>Hippophaë rhamnoides</i>). <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 3798-3816.	5.4	31
97	Defective Autophagy and Mitophagy in Aging and Alzheimer's Disease. <i>Frontiers in Neuroscience</i> , 2020, 14, 612757.	1.4	85
98	Neuronal Mitophagy: Friend or Foe?. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 611938.	1.8	29
99	Targeting mitochondrial fitness as a strategy for healthy vascular aging. <i>Clinical Science</i> , 2020, 134, 1491-1519.	1.8	31
100	Autophagy in the mammalian nervous system: a primer for neuroscientists. <i>Neuronal Signaling</i> , 2019, 3, NS20180134.	1.7	13
101	Potion or Poison? Pomegranate. <i>Journal of Primary Health Care</i> , 2020, 12, 293.	0.2	2
102	Mitophagy protects β^2 cells from inflammatory damage in diabetes. <i>JCI Insight</i> , 2020, 5, .	2.3	67
103	ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020, 12, 24484-24503.	1.4	32
104	Culprit or Bystander: Defective Mitophagy in Alzheimer's Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 391.	1.8	11
105	Differential Effects of Whole Red Raspberry Polyphenols and Their Gut Metabolite Urolithin A on Neuroinflammation in BV-2 Microglia. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 68.	1.2	19
106	The Interplay between Mitochondrial Morphology and Myomitokines in Aging Sarcopenia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 91.	1.8	45
107	Sarcopenia and Muscle Aging: A Brief Overview. <i>Endocrinology and Metabolism</i> , 2020, 35, 716-732.	1.3	84
108	Mitochondrial Quality Control in the Heart: New Drug Targets for Cardiovascular Disease. <i>Korean Circulation Journal</i> , 2020, 50, 395.	0.7	21
109	Mitochondrial dysfunction and Alzheimer's disease: prospects for therapeutic intervention. <i>BMB Reports</i> , 2020, 53, 47-55.	1.1	17
110	Mitochondrial DNA copy number and heteroplasmy load correlate with skeletal muscle oxidative capacity by P31 MR spectroscopy. <i>Aging Cell</i> , 2021, 20, e13487.	3.0	8

#	ARTICLE	IF	CITATIONS
111	Role of autophagy in muscle disease. <i>Molecular Aspects of Medicine</i> , 2021, 82, 101041.	2.7	26
112	Therapeutic Potential of Mitophagy-Inducing Microflora Metabolite, Urolithin A for Alzheimer's Disease. <i>Nutrients</i> , 2021, 13, 3744.	1.7	24
113	Managing risky assets – mitophagy <i>in vivo</i> . <i>Journal of Cell Science</i> , 2021, 134, .	1.2	11
114	A mitochondrial Pac-man drug to tackle aging. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	1
116	Comparative Analysis of the Impact of Urolithins on the Composition of the Gut Microbiota in Normal-Diet Fed Rats. <i>Nutrients</i> , 2021, 13, 3885.	1.7	10
117	Recent Advances in Molecular Pathways and Therapeutic Implications Targeting Mitochondrial Dysfunction for Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2022, 59, 535-555.	1.9	41
118	Mitophagy. , 2020, , 1-11.		0
119	The role of mitochondria in cellular senescence. <i>FASEB Journal</i> , 2021, 35, e21991.	0.2	29
120	Urolithins: Diet-Derived Bioavailable Metabolites to Tackle Diabetes. <i>Nutrients</i> , 2021, 13, 4285.	1.7	14
121	Mitophagy mechanisms in neuronal physiology and pathology during ageing. <i>Biophysical Reviews</i> , 2021, 13, 955-965.	1.5	6
122	Mitophagy. , 2021, , 976-986.		0
123	The profile of buckwheat tannins based on widely targeted metabolome analysis and pharmacokinetic study of ellagitannin metabolite urolithin A. <i>LWT - Food Science and Technology</i> , 2022, 156, 113069.	2.5	6
124	Urolithin A alleviates acute kidney injury induced by renal ischemia reperfusion through the p62-Keap1-Nrf2 signaling pathway. <i>Phytotherapy Research</i> , 2022, 36, 984-995.	2.8	12
125	From the Bench to the Bedside: Branched Amino Acid and Micronutrient Strategies to Improve Mitochondrial Dysfunction Leading to Sarcopenia. <i>Nutrients</i> , 2022, 14, 483.	1.7	13
126	Effect of Urolithin A Supplementation on Muscle Endurance and Mitochondrial Health in Older Adults. <i>JAMA Network Open</i> , 2022, 5, e2144279.	2.8	61
127	Role of the mtDNA Mutations and Mitophagy in Inflammaging. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1323.	1.8	13
128	Urolithin A protects dopaminergic neurons in experimental models of Parkinson's disease by promoting mitochondrial biogenesis through the SIRT1/PGC-1 α signaling pathway. <i>Food and Function</i> , 2022, 13, 375-385.	2.1	26
129	Dietary Phytochemicals that Can Extend Longevity by Regulation of Metabolism. <i>Plant Foods for Human Nutrition</i> , 2022, 77, 12-19.	1.4	9

#	ARTICLE	IF	CITATIONS
130	Urolithins: The Colon Microbiota Metabolites as Endocrine Modulators: Prospects and Perspectives. <i>Frontiers in Nutrition</i> , 2021, 8, 800990.	1.6	10
131	The importance of mitochondrial quality control for maintaining skeletal muscle function across health span. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 322, C461-C467.	2.1	21
132	Urolithin A promotes mitophagy and suppresses NLRP3 inflammasome activation in lipopolysaccharide-induced BV2 microglial cells and MPTP-induced Parkinson's disease model. <i>Neuropharmacology</i> , 2022, 207, 108963.	2.0	53
133	Urolithin A alleviates blood-brain barrier disruption and attenuates neuronal apoptosis following traumatic brain injury in mice. <i>Neural Regeneration Research</i> , 2022, 17, 2007.	1.6	29
134	Urolithins: a Comprehensive Update on their Metabolism, Bioactivity, and Associated Gut Microbiota. <i>Molecular Nutrition and Food Research</i> , 2022, 66, e2101019.	1.5	89
135	Ellagic acid and intestinal microflora metabolite urolithin A: A review on its sources, metabolic distribution, health benefits, and biotransformation. <i>Critical Reviews in Food Science and Nutrition</i> , 2023, 63, 6900-6922.	5.4	27
136	Urolithin A attenuates arsenic-induced gut barrier dysfunction. <i>Archives of Toxicology</i> , 2022, 96, 987-1007.	1.9	10
137	Clinical Trials Targeting Aging. <i>Frontiers in Aging</i> , 2022, 3, .	1.2	17
138	Molecular Mechanisms and Regulation of Mammalian Mitophagy. <i>Cells</i> , 2022, 11, 38.	1.8	45
139	Natural Dibenzo- $\hat{\pm}$ -Pyrones: Friends or Foes?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13063.	1.8	9
140	Urolithin A protects against acetaminophen-induced liver injury in mice via sustained activation of Nrf2. <i>International Journal of Biological Sciences</i> , 2022, 18, 2146-2162.	2.6	21
141	A Synergistic Combination of DHA, Luteolin, and Urolithin A Against Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 780602.	1.7	7
142	Nutraceutical and Dietary Strategies for Up-Regulating Macroautophagy. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2054.	1.8	8
143	Nutraceutical Potential of High-latitude and High-altitude Berries Rich in Ellagitannins. <i>Current Medicinal Chemistry</i> , 2023, 30, 2121-2140.	1.2	2
144	Impact of Plant-Based Foods and Nutraceuticals on <i>Toxoplasma gondii</i> Cysts: Nutritional Therapy as a Viable Approach for Managing Chronic Brain Toxoplasmosis. <i>Frontiers in Nutrition</i> , 2022, 9, 827286.	1.6	2
145	Effects of urolithin A on osteoclast differentiation induced by receptor activator of nuclear factor- $\hat{\kappa}$ B ligand via bone morphogenic protein 2. <i>Bioengineered</i> , 2022, 13, 5064-5078.	1.4	4
146	Pleiotropic effects of mitochondria in aging. <i>Nature Aging</i> , 2022, 2, 199-213.	5.3	66
147	Ferulic acid and berberine, via Sirt1 and AMPK, may act as cell cleansing promoters of healthy longevity. <i>Open Heart</i> , 2022, 9, e001801.	0.9	20

#	ARTICLE	IF	CITATIONS
148	HRAS germline mutations impair LKB1/AMPK signaling and mitochondrial homeostasis in Costello syndrome models. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	11
149	Coordination of mitochondrial and lysosomal homeostasis mitigates inflammation and muscle atrophy during aging. <i>Aging Cell</i> , 2022, 21, e13583.	3.0	19
150	New Paradigms for Familial Diseases: Lessons Learned on Circulatory Bacterial Signatures in Cardiometabolic Diseases. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2022, , .	0.6	1
151	Urolithin A Attenuates Diabetes-Associated Cognitive Impairment by Ameliorating Intestinal Barrier Dysfunction via N-glycan Biosynthesis Pathway. <i>Molecular Nutrition and Food Research</i> , 2022, 66, e2100863.	1.5	14
152	Targeting aging mechanisms: pharmacological perspectives. <i>Trends in Endocrinology and Metabolism</i> , 2022, 33, 266-280.	3.1	50
153	Are mitophagy enhancers therapeutic targets for Alzheimer's disease?. <i>Biomedicine and Pharmacotherapy</i> , 2022, 149, 112918.	2.5	27
154	Mitophagy in aging and longevity. <i>IUBMB Life</i> , 2022, 74, 296-316.	1.5	20
155	From Pre- and Probiotics to Post-Biotics: A Narrative Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 37.	1.2	35
156	Mitochondria and the future of RASopathies: the emergence of bioenergetics. <i>Journal of Clinical Investigation</i> , 2022, 132, 1-5.	3.9	14
157	The gut microbiome as a modulator of healthy ageing. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2022, 19, 565-584.	8.2	162
158	Recent Advances on Drug Development and Emerging Therapeutic Agents Through Targeting Cellular Homeostasis for Ageing and Cardiovascular Disease. <i>Frontiers in Aging</i> , 2022, 3, .	1.2	4
159	Nutrition Interventions of Herbal Compounds on Cellular Senescence. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-17.	1.9	0
160	Urolithin A Nanoparticle Therapy for Cisplatin-Induced Acute Kidney Injury. <i>Nephron</i> , 2022, , 1-3.	0.9	0
161	Urolithin A Inactivation of TLR3/TRIF Signaling to Block the NF- κ B/STAT1 Axis Reduces Inflammation and Enhances Antioxidant Defense in Poly(I:C)-Induced RAW264.7 Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4697.	1.8	12
162	Urolithin A attenuates auditory cell senescence by activating mitophagy. <i>Scientific Reports</i> , 2022, 12, 7704.	1.6	15
163	Urolithin A improves muscle strength, exercise performance, and biomarkers of mitochondrial health in a randomized trial in middle-aged adults. <i>Cell Reports Medicine</i> , 2022, 3, 100633.	3.3	55
164	Chitosan-based oral colon-specific delivery systems for polyphenols: recent advances and emerging trends. <i>Journal of Materials Chemistry B</i> , 2022, 10, 7328-7348.	2.9	25
165	Urolithin A ameliorates obesity-induced metabolic cardiomyopathy in mice via mitophagy activation. <i>Acta Pharmacologica Sinica</i> , 2023, 44, 321-331.	2.8	15

#	ARTICLE	IF	CITATIONS
166	The Therapeutic Potential of Urolithin A for Cancer Treatment and Prevention. <i>Current Cancer Drug Targets</i> , 2022, 22, 717-724.	0.8	8
167	Mitophagy in Alzheimer's disease: Molecular defects and therapeutic approaches. <i>Molecular Psychiatry</i> , 2023, 28, 202-216.	4.1	48
168	Boosting the immunotherapy response by nutritional interventions. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	8
170	Urolithins and intestinal health. <i>Drug Discoveries and Therapeutics</i> , 2022, 16, 105-111.	0.6	6
171	Parkin: a potential target to promote healthy ageing. <i>Journal of Physiology</i> , 2022, 600, 3405-3421.	1.3	6
172	Urolithin A Attenuates Hyperuricemic Nephropathy in Fructose-Fed Mice by Impairing STING-NLRP3 Axis-Mediated Inflammatory Response via Restoration of Parkin-Dependent Mitophagy. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	9
173	Ameliorative Effects of Gut Microbial Metabolite Urolithin A on Pancreatic Diseases. <i>Nutrients</i> , 2022, 14, 2549.	1.7	8
174	Combinatory Exposure to Urolithin A, Alternariol, and Deoxynivalenol Affects Colon Cancer Metabolism and Epithelial Barrier Integrity in vitro. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	9
175	Recent Advances and Perspectives on the Health Benefits of Urolithin B, A Bioactive Natural Product Derived From Ellagitannins. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	16
176	Polyphenols: Bioavailability, Microbiome Interactions and Cellular Effects on Health in Humans and Animals. <i>Pathogens</i> , 2022, 11, 770.	1.2	18
177	Immunometabolic rewiring of tubular epithelial cells in kidney disease. <i>Nature Reviews Nephrology</i> , 2022, 18, 588-603.	4.1	32
178	Urolithin A improves mitochondrial health, reduces cartilage degeneration, and alleviates pain in osteoarthritis. <i>Aging Cell</i> , 2022, 21, .	3.0	46
179	The relevance of urolithins-based metabotyping for assessing the effects of a polyphenol-rich dietary intervention on intestinal permeability: A post-hoc analysis of the MaPLE trial. <i>Food Research International</i> , 2022, 159, 111632.	2.9	6
180	Role of Mitophagy in neurodegenerative Diseases and potential targets for Therapy. <i>Molecular Biology Reports</i> , 2022, 49, 10749-10760.	1.0	11
181	Roles of microglial mitophagy in neurological disorders. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	5
182	The Therapeutic Relevance of Urolithins, Intestinal Metabolites of Ellagitannin-Rich Food: A Systematic Review of In Vivo Studies. <i>Nutrients</i> , 2022, 14, 3494.	1.7	9
183	Urolithins Modulate the Viability, Autophagy, Apoptosis, and Nephron Turnover in Podocytes Exposed to High Glucose. <i>Cells</i> , 2022, 11, 2471.	1.8	3
184	Identification of ellagic acid and urolithins as natural inhibitors of A β -induced neurotoxicity and the mechanism prediction using network pharmacology analysis and molecular docking. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	8

#	ARTICLE	IF	CITATIONS
185	Protective activities of ellagic acid and urolithins against kidney toxicity of environmental pollutants: A review. <i>Environmental Toxicology and Pharmacology</i> , 2022, 95, 103960.	2.0	7
186	Ellagitannins, urolithins, and neuroprotection: Human evidence and the possible link to the gut microbiota. <i>Molecular Aspects of Medicine</i> , 2023, 89, 101109.	2.7	20
187	Microbiota mitochondria disorders as hubs for early age-related macular degeneration. <i>GeroScience</i> , 2022, 44, 2623-2653.	2.1	4
188	Health functions and related molecular mechanisms of ellagitannin-derived urolithins. <i>Critical Reviews in Food Science and Nutrition</i> , 2024, 64, 280-310.	5.4	5
189	Role of the Gut Microbiome in Skeletal Muscle Physiology and Pathophysiology. <i>Current Osteoporosis Reports</i> , 2022, 20, 422-432.	1.5	6
190	Therapeutic strategies in ischemic cardiomyopathy: Focus on mitochondrial quality surveillance. <i>EBioMedicine</i> , 2022, 84, 104260.	2.7	36
191	Genomic instability and aging. , 2023, , 275-295.		1
192	Microbial metabolite restricts 5-fluorouracil-resistant colonic tumor progression by sensitizing drug transporters via regulation of FOXO3-FOXM1 axis. <i>Theranostics</i> , 2022, 12, 5574-5595.	4.6	16
193	Antiaging drugs, candidates, and food supplements: the journey so far. , 2022, , 191-239.		1
194	Molecular linkages among A β , tau, impaired mitophagy, and mitochondrial dysfunction in Alzheimer's disease. , 2022, , 91-109.		0
195	Lactococcus garvieae FUA009, a Novel Intestinal Bacterium Capable of Producing the Bioactive Metabolite Urolithin A from Ellagic Acid. <i>Foods</i> , 2022, 11, 2621.	1.9	8
197	Urolithin A Attenuates <i>Helicobacter pylori</i> -Induced Damage In Vivo. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 11981-11993.	2.4	3
198	Oocyte mitophagy is critical for extended reproductive longevity. <i>PLoS Genetics</i> , 2022, 18, e1010400.	1.5	9
199	Hyperglycemia Promotes Mitophagy and Thereby Mitigates Hyperglycemia-Induced Damage. <i>American Journal of Pathology</i> , 2022, 192, 1779-1794.	1.9	5
200	Urolithin A targets the AKT/WNK1 axis to induce autophagy and exert anti-tumor effects in cholangiocarcinoma. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	6
201	The compartmentalised nature of neuronal mitophagy: molecular insights and implications. <i>Expert Reviews in Molecular Medicine</i> , 2022, 24, .	1.6	2
202	Role of mitophagy in the neurodegenerative diseases and its pharmacological advances: A review. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	5
203	Probiotics, postbiotics and paraprobiotics. <i>Eksperimental'naya I Klinicheskaya Gastroenterologiya</i> , 2022, , 240-250.	0.1	0

#	ARTICLE	IF	CITATIONS
205	Interactions between Gut Microbiota and Polyphenols: New Insights into the Treatment of Fatigue. <i>Molecules</i> , 2022, 27, 7377.	1.7	12
206	Expansion of T memory stem cells with superior anti-tumor immunity by Urolithin A-induced mitophagy. <i>Immunity</i> , 2022, 55, 2059-2073.e8.	6.6	29
207	Autophagy in striated muscle diseases. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	1
208	A Novel <i>Streptococcus thermophilus</i> FUA329 Isolated from Human Breast Milk Capable of Producing Urolithin A from Ellagic Acid. <i>Foods</i> , 2022, 11, 3280.	1.9	11
209	Therapeutic Antiaging Strategies. <i>Biomedicines</i> , 2022, 10, 2515.	1.4	11
210	<i>Weizmannia coagulans</i> BC2000 Plus Ellagic Acid Inhibits High-Fat-Induced Insulin Resistance by Remodeling the Gut Microbiota and Activating the Hepatic Autophagy Pathway in Mice. <i>Nutrients</i> , 2022, 14, 4206.	1.7	5
211	Exploring therapeutic potential of mitophagy modulators using <i>Drosophila</i> models of Parkinson's disease. <i>Frontiers in Aging Neuroscience</i> , 0, 14, .	1.7	1
212	Gut Metabolite Urolithin A Inhibits Osteoclastogenesis and Senile Osteoporosis by Enhancing the Autophagy Capacity of Bone Marrow Macrophages. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	6
213	Ellagitannins. , 2022, , 1-20.		0
215	Therapeutic Potential of Targeting Mitochondria for Alzheimer's Disease Treatment. <i>Journal of Clinical Medicine</i> , 2022, 11, 6742.	1.0	5
216	Isolation and characterization of a novel human intestinal <i>Enterococcus faecium</i> FUA027 capable of producing urolithin A from ellagic acid. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	10
217	Compromised autophagy and mitophagy in brain ageing and Alzheimer's diseases. <i>Aging Brain</i> , 2022, 2, 100056.	0.7	8
218	The Impact of Ellagitannins and Their Metabolites through Gut Microbiome on the Gut Health and Brain Wellness within the Gut-Brain Axis. <i>Foods</i> , 2023, 12, 270.	1.9	29
219	Bioactive components, pharmacological effects, and drug development of traditional herbal medicine <i>Rubus chingii</i> Hu (Fu-Pen-Zi). <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	11
220	Effect of urolithin A on the improvement of vascular endothelial function depends on the gut microbiota. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	4
221	Anti-aging effects of dietary phytochemicals: From <i>Caenorhabditis elegans</i> , <i>Drosophila melanogaster</i> , rodents to clinical studies. <i>Critical Reviews in Food Science and Nutrition</i> , 0, , 1-26.	5.4	3
222	Cellular mitophagy: Mechanism, roles in diseases and small molecule pharmacological regulation. <i>Theranostics</i> , 2023, 13, 736-766.	4.6	43
223	Mitochondrial Dysfunction and Mitophagy in Type 2 Diabetes: Pathophysiology and Therapeutic Targets. <i>Antioxidants and Redox Signaling</i> , 2023, 39, 278-320.	2.5	7

#	ARTICLE	IF	CITATIONS
224	Urolithin A reduces amyloid-beta load and improves cognitive deficits uncorrelated with plaque burden in a mouse model of Alzheimer's disease. <i>GeroScience</i> , 2023, 45, 1095-1113.	2.1	14
225	The Crosstalk between Microbiome and Mitochondrial Homeostasis in Neurodegeneration. <i>Cells</i> , 2023, 12, 429.	1.8	6
226	Using a Life Expectancy Calculator to Support Nutrition Education. <i>American Biology Teacher</i> , 2023, 85, 38-44.	0.1	0
227	New Insights into the Genetics and Epigenetics of Aging Plasticity. <i>Genes</i> , 2023, 14, 329.	1.0	2
228	Mitochondrial modulators. , 2023, , 193-226.		0
229	Clinical trials in mitochondrial diseases. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2023, , 229-250.	1.0	1
230	Mitophagy: A promising therapeutic target for neuroprotection during ageing and age-related diseases. <i>British Journal of Pharmacology</i> , 2023, 180, 1542-1561.	2.7	18
231	Ellagitannins-Derived Intestinal Microbial Metabolite Urolithin A Ameliorates Fructose-Driven Hepatosteatosis by Suppressing Hepatic Lipid Metabolic Reprogramming and Inducing Lipophagy. <i>Journal of Agricultural and Food Chemistry</i> , 2023, 71, 3967-3980.	2.4	2
232	The Role of Mitophagy in Skeletal Muscle Damage and Regeneration. <i>Cells</i> , 2023, 12, 716.	1.8	6
234	Differential Role of Active Compounds in Mitophagy and Related Neurodegenerative Diseases. <i>Toxins</i> , 2023, 15, 202.	1.5	6
235	The Potential of Flavonoids and Flavonoid Metabolites in the Treatment of Neurodegenerative Pathology in Disorders of Cognitive Decline. <i>Antioxidants</i> , 2023, 12, 663.	2.2	9
236	A mitochondrial SCF ^{FBXL4} ubiquitin E3 ligase complex degrades BNIP3 and NIX to restrain mitophagy and prevent mitochondrial disease. <i>EMBO Journal</i> , 2023, 42, .	3.5	25
237	Natural products for kidney disease treatment: Focus on targeting mitochondrial dysfunction. <i>Frontiers in Pharmacology</i> , 0, 14, .	1.6	3
238	Phytotherapeutic targeting of the mitochondria in neurodegenerative disorders. <i>Advances in Protein Chemistry and Structural Biology</i> , 2023, , 415-455.	1.0	0
239	Dietary Intervention with the Gut Microbial Metabolite Urolithin A Attenuates Lipopolysaccharide-Induced Neuroinflammation and Cognitive Deficits via the Sirt1/acetylated NF- κ B Signaling Pathway. <i>Molecular Nutrition and Food Research</i> , 2023, 67, .	1.5	2
241	Mitophagy regulation in aging and neurodegenerative disease. <i>Biophysical Reviews</i> , 2023, 15, 239-255.	1.5	4
242	The Role of Mitochondrial Dysfunction in Alzheimer's: Molecular Defects and Mitophagy-Enhancing Approaches. <i>Life</i> , 2023, 13, 970.	1.1	0
243	Urolithin A's Antioxidative, Anti-Inflammatory, and Antiapoptotic Activities Mitigate Doxorubicin-Induced Liver Injury in Wistar Rats. <i>Biomedicines</i> , 2023, 11, 1125.	1.4	6

#	ARTICLE	IF	CITATIONS
244	Urolithin A Produced by Novel Microbial Fermentation Possesses Anti-aging Effects by Improving Mitophagy and Reducing Reactive Oxygen Species in <i>Caenorhabditis elegans</i> . Journal of Agricultural and Food Chemistry, 2023, 71, 6348-6357.	2.4	4
258	Recent advances in small molecules for improving mitochondrial disorders. RSC Advances, 2023, 13, 20476-20485.	1.7	0
267	Targeting mitophagy for neurological disorders treatment: advances in drugs and non-drug approaches. Naunyn-Schmiedeberg's Archives of Pharmacology, 0, , .	1.4	0
268	The role of <i>Caenorhabditis elegans</i> in the discovery of natural products for healthy aging. Natural Product Reports, 0, , .	5.2	1
269	Induction of mitochondrial recycling reverts age-associated decline of the hematopoietic and immune systems. Nature Aging, 2023, 3, 1057-1066.	5.3	6
276	Ellagitannins. , 2023, , 407-426.		0
281	Mitophagy Activation by Urolithin A to Target Muscle Aging. Calcified Tissue International, 0, , .	1.5	1
297	Natural Activators of Autophagy. Biochemistry (Moscow), 2024, 89, 1-26.	0.7	1
298	How the Microbiome Affects the Risk for Colon Cancer. , 2023, , 97-115.		0