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Role of carnitine in disease

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#	Paper	IF	Citations
388	Protective action of L-carnitine on cardiac mitochondrial function and structure against fatty acid stress. <b>2011</b> , 412, 61-7		40
387	Metabolic signatures in apoptotic human cancer cell lines. <b>2011</b> , 15, 325-35		24
386	Acetyl-L-carnitine improves cognitive functions in severe hepatic encephalopathy: a randomized and controlled clinical trial. <b>2011</b> , 26, 281-9		42
385	Effect of L-carnitine on the synthesis of nitric oxide in RAW 264 <sup>[7]</sup> murine macrophage cell line. <b>2011</b> , 29, 679-85		30
384	Neuroprotective effects of pre-treatment with l-carnitine and acetyl-L-carnitine on ischemic injury in vivo and in vitro. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 2078-90	6.3	42
383	Carnitine derivatives: clinical usefulness. <b>2012</b> , 28, 166-76		68
382	A common X-linked inborn error of carnitine biosynthesis may be a risk factor for nondysmorphic autism. <b>2012</b> , 109, 7974-81		94
381	Fish oil emulsions in the management of intestinal failure-associated liver disease. <b>2012</b> , 46, 823-7		6
380	Evaluation of serum level of carnitine in HIV-positive individuals and its possible explanatory factors. <b>2012</b> , 7, 1021-1028		2
379	A myriad of pathways to NASH. <b>2012</b> , 16, 525-48		33
378	Studies on the chemopreventive effect of carnitine on tumorigenesis in vivo, using two experimental murine models of colon cancer. <b>2012</b> , 64, 1279-87		8
377	Toward a predictive model of Alzheimer's disease progression using capillary electrophoresis-mass spectrometry metabolomics. <b>2012</b> , 84, 8532-40		120
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374	L-Carnitine. <b>2012</b> , 391-404		4
373	Carnitine-induced senescence in glioblastoma cells. Experimental and Therapeutic Medicine, 2012, 4, 21-	- <b>25</b> .1	3
372	Acetyl-L-carnitine in hepatic encephalopathy. <b>2013</b> , 28, 193-9		37

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370	Role of hyperosmolarity in the pathogenesis and management of dry eye disease: proceedings of the OCEAN group meeting. <b>2013</b> , 11, 246-58		224	
369	Diet, nutraceuticals and the tear film. Experimental Eye Research, 2013, 117, 138-46	3.7	26	
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366	The role of antioxidants and other agents in alleviating hyperglycemia mediated oxidative stress and injury in liver. <b>2013</b> , 4, 1148-84		84	
365	Carnitine deficiency and its possible risk factors in TB patients: first report. <b>2013</b> , 5, 945-53			
364	Carnitine deficiency presenting with a decreased mental state in a patient with amyotrophic lateral sclerosis receiving long-term tube feeding: a case report. <b>2013</b> , 7, 286		2	
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341	Protective Effects of L-Carnitine Against Oxidative Injury by Hyperosmolarity in Human Corneal Epithelial Cells. <b>2015</b> , 56, 5503-11	35
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334	Nutritional Supplementation in Ehlers-Danlos Syndrome. <b>2015</b> , 161-170	
333	Antiinflammatory effects of L-carnitine supplementation (1000 mg/d) in coronary artery disease patients. <b>2015</b> , 31, 475-9	44
332	Pharmacometabolomics of l-carnitine treatment response phenotypes in patients with septic shock. <b>2015</b> , 12, 46-56	48
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330	Carnitine transporter CT2 (SLC22A16) is over-expressed in acute myeloid leukemia (AML) and target knockdown reduces growth and viability of AML cells. <b>2015</b> , 20, 1099-108	25
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327	Global Metabolomic Identification of Long-Term Dose-Dependent Urinary Biomarkers in Nonhuman Primates Exposed to Ionizing Radiation. <b>2015</b> , 184, 121-33	39
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214	Possible role of l-carnitine in improvement of metabolic and hepatic changes in hyperuricemic and hyperuricemic-Fructose-supplemented rats. <b>2019</b> , 7, e14282	3
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204	Identification of TMAO-producer phenotype and host-diet-gut dysbiosis by carnitine challenge test in human and germ-free mice. <b>2019</b> , 68, 1439-1449		72
203	The Renal Safety of L-Carnitine, L-Arginine, and Glutamine in Athletes and Bodybuilders. <i>Journal of Renal Nutrition</i> , <b>2019</b> , 29, 221-234	3	3
202	Cats with IRIS stage 1 and 2 chronic kidney disease maintain body weight and lean muscle mass when fed food having increased caloric density, and enhanced concentrations of carnitine and essential amino acids. <b>2019</b> , 184, 190		5
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200	Refractory Hyperlactatemia After a Septic Shock in a Patient With Carnitine Deficiency: A Case Report. <b>2020</b> , 33, 113-116		1
199	Untargeted UPLC-MS metabolomics reveals multiple changes of urine composition in healthy adult volunteers after consumption of curcuma longa L. extract. <b>2020</b> , 127, 108730		13
198	Flavin-containing monooxygenase 3 (FMO3): genetic variants and their consequences for drug metabolism and disease. <b>2020</b> , 50, 19-33		28
198 197			28 5
	metabolism and disease. <b>2020</b> , 50, 19-33  Knockout of the non-essential gene SUGCT creates diet-linked, age-related microbiome disbalance		
197	metabolism and disease. <b>2020</b> , 50, 19-33  Knockout of the non-essential gene SUGCT creates diet-linked, age-related microbiome disbalance with a diabetes-like metabolic syndrome phenotype. <b>2020</b> , 77, 3423-3439  Stability enhancement and formulation development of l-Carnitine fast-dissolving pellets through		5
19 <del>7</del>	Mockout of the non-essential gene SUGCT creates diet-linked, age-related microbiome disbalance with a diabetes-like metabolic syndrome phenotype. <b>2020</b> , 77, 3423-3439  Stability enhancement and formulation development of l-Carnitine fast-dissolving pellets through pro-drug strategy. <b>2020</b> , 55, 101474  Carnitine in Human Muscle Bioenergetics: Can Carnitine Supplementation Improve Physical		5 O
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190	Neonatal carnitine concentrations in relation to gestational age and weight. <b>2020</b> , 56, 95-104		О
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185	Carnitine Serum Levels in Frail Older Subjects. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	4
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176	Nutraceutical support in heart failure: a position paper of the International Lipid Expert Panel (ILEP). <b>2020</b> , 33, 155-179		20
175	Quaternary-Ammonium-Modulated Surface-Enhanced Raman Spectroscopy Effect: Discovery, Mechanism, and Application for Highly Sensitive Sensing of Acetylcholine. <b>2020</b> , 92, 9706-9713		0
174	Opportunities within the Agri-food System to Encourage a Nutritionally Balanced Diet Part I. <b>2020</b> , 1-52		О

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172	Gut microbiota-derived metabolites in obesity: a systematic review. <b>2020</b> , 39, 65-76	14
171	Metabolome profiling in skeletal muscle to characterize metabolic alterations in over-conditioned cows during the periparturient period. <b>2020</b> , 103, 3730-3744	6
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157	Metabolic features of adiposity and glucose homoeostasis among school-aged inuit children from Nunavik (Northern Quebec, Canada). <b>2021</b> , 80, 1858605	O
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155	Efficacy of L-Carnitine for Dilated Cardiomyopathy: A Meta-Analysis of Randomized Controlled Trials. <b>2021</b> , 2021, 9491615		
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149	Partial Coated Stem Cells with Bioinspired Silica as New Generation of Cellular Hybrid Materials. <b>2021</b> , 31, 2009619		4
148	The First Metabolome Analysis in Children with Epilepsy and ALG13-CDG Resulting from c.320A>G Variant. <b>2021</b> , 8,		1
147	Taste-Active and Nutritional Components of Thai Native Chicken Meat: A Perspective of Consumer Satisfaction. <b>2021</b> , 41, 237-246		2
146	Interaction of supplementary L-carnitine and dietary energy levels on feed utilization and blood constituents in New Zealand White rabbits reared under summer conditions. <b>2021</b> , 53, 279		6
145	L-Carnitine Production Through Biosensor-Guided Construction of the Biosynthesis Pathway in. <b>2021</b> , 9, 671321		1
144	Specific gut microbial, biological, and psychiatric profiling related to binge eating disorders: A cross-sectional study in obese patients. <b>2021</b> , 40, 2035-2044		5
143	Associations of circulating choline and its related metabolites with cardiometabolic biomarkers: an international pooled analysis. <b>2021</b> , 114, 893-906		1
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141	Muscle metabolome and adipose tissue mRNA expression of lipid metabolism-related genes in over-conditioned dairy cows differing in serum-metabotype. <b>2021</b> , 11, 11106		1
140	Chronological Metabolic Response to Intensive Phase TB Therapy in Patients with Cured and Failed Treatment Outcomes. <i>ACS Infectious Diseases</i> , <b>2021</b> , 7, 1859-1869	5.5	1
139	Effects of cisplatin and acacetin on total antioxidant status, apoptosis and expression of in mouse testis. <b>2021</b> , 1-7		1
138	Nutrients and micronutrients at risk during renal replacement therapy: a scoping review. <b>2021</b> , 27, 367-	377	3

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136	Metabolic Profiling Reveals Changes in Serum Predictive of Venous Ulcer Healing. <b>2021</b> , Publish Ahead of Print,		
135	Evidence for Peroxisomal Dysfunction and Dysregulation of the CDP-Choline Pathway in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome <b>2022</b> ,		1
134	Tracing the evolution of human gene regulation and its association with shifts in environment.		
133	Combined Metabolic Activators Improves Cognitive Functions in Alzheimer Disease.		2
132	Fasting hypoglycaemia secondary to carnitine deficiency: a late consequence of gastric bypass. <b>2021</b> , 14,		
131	Possible Biochemical Processes Underlying the Positive Health Effects of Plant-Based Diets-A Narrative Review. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	3
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129	Possible correlation between increased serum free carnitine levels and increased skeletal muscle mass following HCV eradication by direct acting antivirals. <b>2021</b> , 11, 16616		О
128	Role of Carnitine in Non-alcoholic Fatty Liver Disease and Other Related Diseases: An Update. <b>2021</b> , 8, 689042		7
127	Metabolomics-based understanding of the olanzapine-induced weight gain in female first-episode drug-nalle patients with schizophrenia. <b>2021</b> , 140, 409-415		3
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125	The effect of combined oral contraceptives containing drospirenone and ethinylestradiol on serum levels of amino acids and acylcarnitines. <i>Metabolomics</i> , <b>2021</b> , 17, 75	4.7	0
124	The Neuroprotective Effect of L-Carnitine against Glyceraldehyde-Induced Metabolic Impairment: Possible Implications in Alzheimer's Disease. <b>2021</b> , 10,		O
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122	Evaluation of carnitine levels in dried blood spot samples in children with autism spectrum disorder. <b>2021</b> ,		
121	ROLE OF MICRONUTRIENTS IN HEART DISEASES. 1-5		
120	A Distinctive Human Metabolomics Alteration Associated with Osteopenic and Osteoporotic Patients. <i>Metabolites</i> , <b>2021</b> , 11,	5.6	1

119	Effect of medium chain fatty acid in human health and disease. <b>2021</b> , 87, 104724	4
118	Stereoselective effects of fungicide difenoconazole and its four stereoisomers on gut barrier, microbiota, and glucolipid metabolism in male mice. <b>2022</b> , 805, 150454	2
117	The Relationship between Body Composition, Fatty Acid Metabolism and Diet in Spinal Muscular Atrophy. <b>2021</b> , 11,	2
116	The Effects of Vitamin E, Silymarin and Carnitine on the Metabolic Abnormalities Associated with Nonalcoholic Liver Disease. <b>2021</b> , 1-16	1
115	Plant and Animal-Type Feedstuff Shape the Gut Microbiota and Metabolic Processes of the Chinese Mitten Crab. <i>Frontiers in Veterinary Science</i> , <b>2021</b> , 8, 589624	2
114	QT Prolongation in Dialysis Patients: An Epidemiological Study with a Focus on Malnutrition. <b>2021</b> , 1-8	
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111	Bioactive Substances of Animal Origin. <b>2015</b> , 1009-1033	5
110	Relationship between the plasma acylcarnitine profile and cardiometabolic risk factors in adults diagnosed with cardiovascular diseases. <b>2020</b> , 507, 250-256	6
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102	Effects of oral or intravenous L-carnitine administration on serum carnitine levels and clinical parameters in hemodialysis patients. <b>2014</b> , 47, 367-374	3

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99	Vegetarian diet duration's influence on women's gut environment. <b>2021</b> , 16, 16		О
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86	Role of carnitine in regulation of blood pressure (MAP/SBP) and gene expression of cardiac hypertrophy markers (连MHC) during insulin-induced hypoglycaemia: Role of oxidative stress. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2021</b> , 48, 478-489	3	1
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83	Decrease in hyperosmotic stress-induced corneal epithelial cell apoptosis by L-carnitine. <i>Molecular Vision</i> , <b>2013</b> , 19, 1945-56	2.3	16
82	Effects of Postconditioning, Preconditioning and Perfusion of L-carnitine During Whole Period of Ischemia/ Reperfusion on Cardiac Hemodynamic Functions and Myocardial Infarction Size in Isolated Rat Heart. <i>Iranian Journal of Basic Medical Sciences</i> , <b>2013</b> , 16, 640-7	1.8	3
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68	Identification and Distribution of Sterols, Bile Acids, and Acylcarnitines by LC-MS/MS in Humans, Mice, and Pigs-A Qualitative Analysis <i>Metabolites</i> , <b>2022</b> , 12,	5.6	2
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66	Microvesicular Steatosis and Severe Cardiac Allograft Dysfunction <i>Transplantation Direct</i> , <b>2022</b> , 8, e17	29 <u>0</u> .3	

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61	Role of zinc and copper in erythropoiesis in patients on hemodialysis <i>Journal of Renal Nutrition</i> , <b>2022</b> ,	3	1
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51	Biochemistry of human tear film: A review Experimental Eye Research, 2022, 220, 109101	3.7	O
50	Development of a highly sensitive Prussian-blue-based enzymatic biosensor for L-carnitine employing the thiol/disulfide exchange reaction <i>Analytical Sciences</i> , <b>2022</b> ,	1.7	1
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