Janos Zempleni

List of Publications by Year in descending order

184 papers	7,047 citations	57719 44 h-index	71651 76 g-index
190 all docs	190 docs citations	190 times ranked	4885 citing authors

#	Article	IF	Citations
1	MicroRNAs Are Absorbed in Biologically Meaningful Amounts from Nutritionally Relevant Doses of Cow Milk and Affect Gene Expression in Peripheral Blood Mononuclear Cells, HEK-293 Kidney Cell Cultures, and Mouse Livers. Journal of Nutrition, 2014, 144, 1495-1500.	1.3	402
2	Milk exosomes are bioavailable and distinct microRNA cargos have unique tissue distribution patterns. Scientific Reports, 2018, 8, 11321.	1.6	288
3	The Intestinal Transport of Bovine Milk Exosomes Is Mediated by Endocytosis in Human Colon Carcinoma Caco-2 Cells and Rat Small Intestinal IEC-6 Cells. Journal of Nutrition, 2015, 145, 2201-2206.	1.3	275
4	Biotin. BioFactors, 2009, 35, 36-46.	2.6	268
5	Biological Activities of Extracellular Vesicles and Their Cargos from Bovine and Human Milk in Humans and Implications for Infants. Journal of Nutrition, 2017, 147, 3-10.	1.3	224
6	UPTAKE, LOCALIZATION, AND NONCARBOXYLASE ROLES OF BIOTIN. Annual Review of Nutrition, 2005, 25, 175-196.	4.3	161
7	Human vascular endothelial cells transport foreign exosomes from cow's milk by endocytosis. American Journal of Physiology - Cell Physiology, 2016, 310, C800-C807.	2.1	155
8	Biotinylation of histones in human cells. FEBS Journal, 2001, 268, 5424-5429.	0.2	150
9	Regulation of gene expression by biotinâˆ† (review). Journal of Nutritional Biochemistry, 2003, 14, 680-690.	1.9	144
10	Nutrition, microRNAs, and Human Health. Advances in Nutrition, 2017, 8, 105-112.	2.9	143
11	Biotin and biotinidase deficiency. Expert Review of Endocrinology and Metabolism, 2008, 3, 715-724.	1.2	137
12	Biotin biochemistry and human requirements. Journal of Nutritional Biochemistry, 1999, 10, 128-138.	1.9	133
13	Milk-Derived Exosomes and Metabolic Regulation. Annual Review of Animal Biosciences, 2019, 7, 245-262.	3.6	115
14	Loss of miRNAs during Processing and Storage of Cowâ€™s (Bos taurus) Milk. Journal of Agricultural and Food Chemistry, 2015, 63, 588-592.	2.4	112
15	Riboflavin. Advances in Nutrition, 2016, 7, 973-975.	2.9	110
16	Biotin Supply Affects Expression of Biotin Transporters, Biotinylation of Carboxylases and Metabolism of Interleukin-2 in Jurkat Cells. Journal of Nutrition, 2002, 132, 887-892.	1.3	94
17	Lysine residues in N-terminal and C-terminal regions of human histone H2A are targets for biotinylation by biotinidase. Journal of Nutritional Biochemistry, 2006, 17, 225-233.	1.9	94
18	K8 and K12 are biotinylated in human histone H4. FEBS Journal, 2004, 271, 2257-2263.	0.2	93

#	Article	IF	Citations
19	Epigenetic Regulation of Chromatin Structure and Gene Function by Biotin. Journal of Nutrition, 2006, 136, 1763-1765.	1.3	90
20	RNase H2-Dependent Polymerase Chain Reaction and Elimination of Confounders in Sample Collection, Storage, and Analysis Strengthen Evidence That microRNAs in Bovine Milk Are Bioavailable in Humans. Journal of Nutrition, 2018, 148, 153-159.	1.3	87
21	Dietary bovine milk exosomes elicit changes in bacterial communities in C57BL/6 mice. American Journal of Physiology - Renal Physiology, 2019, 317, G618-G624.	1.6	87
22	Biological functions of biotinylated histones. Journal of Nutritional Biochemistry, 2005, 16, 446-448.	1.9	86
23	Uptake and metabolism of biotin by human peripheral blood mononuclear cells. American Journal of Physiology - Cell Physiology, 1998, 275, C382-C388.	2.1	85
24	Marginal Biotin Deficiency Is Teratogenic. Proceedings of the Society for Experimental Biology and Medicine, 2000, 223, 14-21.	2.0	84
25	Storage of Extracellular Vesicles in Human Milk, and MicroRNA Profiles in Human Milk Exosomes and Infant Formulas. Journal of Pediatric Gastroenterology and Nutrition, 2019, 69, 235-238.	0.9	83
26	K4, K9 and K18 in human histone H3 are targets for biotinylation by biotinidase. FEBS Journal, 2005, 272, 4249-4259.	2.2	75
27	K12-biotinylated histone H4 marks heterochromatin in human lymphoblastoma cells. Journal of Nutritional Biochemistry, 2007, 18, 760-768.	1.9	71
28	Drosophila melanogaster Holocarboxylase Synthetase Is a Chromosomal Protein Required for Normal Histone Biotinylation, Gene Transcription Patterns, Lifespan, and Heat Tolerance ,. Journal of Nutrition, 2006, 136, 2735-2742.	1.3	68
29	Biotin dependency due to a defect in biotin transport. Journal of Clinical Investigation, 2002, 109, 1617-1623.	3.9	68
30	Protective Role of Shiitake Mushroom-Derived Exosome-Like Nanoparticles in D-Galactosamine and Lipopolysaccharide-Induced Acute Liver Injury in Mice. Nutrients, 2020, 12, 477.	1.7	66
31	Bioavailability of biotin given orally to humans in pharmacologic doses. American Journal of Clinical Nutrition, 1999, 69, 504-508.	2.2	65
32	Riboflavin deficiency causes protein and DNA damage in HepG2 cells, triggering arrest in G1 phase of the cell cycle. Journal of Nutritional Biochemistry, 2006, 17, 250-256.	1.9	64
33	Biotin supply affects rates of cell proliferation, biotinylation of carboxylases and histones, and expression of the gene encoding the sodium-dependent multivitamin transporter in JAr choriocarcinoma cells. European Journal of Nutrition, 2004, 43, 23-31.	1.8	62
34	Biotinylation of Histones Represses Transposable Elements in Human and Mouse Cells and Cell Lines and in Drosophila melanogaster3. Journal of Nutrition, 2008, 138, 2316-2322.	1.3	62
35	Computational Characterization of Exogenous MicroRNAs that Can Be Transferred into Human Circulation. PLoS ONE, 2015, 10, e0140587.	1.1	62
36	Riboflavin Deficiency Impairs Oxidative Folding and Secretion of Apolipoprotein B-100 in HepG2 Cells, Triggering Stress Response Systems. Journal of Nutrition, 2005, 135, 978-982.	1.3	61

#	Article	IF	Citations
37	Biotinylation is a natural, albeit rare, modification of human histones. Molecular Genetics and Metabolism, 2011, 104, 537-545.	0.5	56
38	Exposure to UV light causes increased biotinylation of histones in Jurkat cells. American Journal of Physiology - Cell Physiology, 2002, 283, C878-C884.	2.1	55
39	Holocarboxylase synthetase regulates expression of biotin transporters by chromatin remodeling events at the SMVT locus. Journal of Nutritional Biochemistry, 2008, 19, 400-408.	1.9	55
40	Gene regulation by dietary microRNAs. Canadian Journal of Physiology and Pharmacology, 2015, 93, 1097-1102.	0.7	54
41	In Vivo Biotin Supplementation at a Pharmacologic Dose Decreases Proliferation Rates of Human Peripheral Blood Mononuclear Cells and Cytokine Release. Journal of Nutrition, 2001, 131, 1479-1484.	1.3	52
42	Novel histone biotinylation marks are enriched in repeat regions and participate in repression of transcriptionally competent genes. Journal of Nutritional Biochemistry, 2011, 22, 328-333.	1.9	48
43	Biotin. Advances in Nutrition, 2012, 3, 213-214.	2.9	48
44	A diet defined by its content of bovine milk exosomes and their RNA cargos has moderate effects on gene expression, amino acid profiles and grip strength in skeletal muscle in C57BL/6 mice. Journal of Nutritional Biochemistry, 2018, 59, 123-128.	1.9	47
45	Milk exosomes: beyond dietary microRNAs. Genes and Nutrition, 2017, 12, 12.	1.2	46
46	NIH workshop on human milk composition: summary and visions. American Journal of Clinical Nutrition, 2019, 110, 769-779.	2.2	46
47	Feeding Drosophila a Biotin-Deficient Diet for Multiple Generations Increases Stress Resistance and Lifespan and Alters Gene Expression and Histone Biotinylation Patterns3. Journal of Nutrition, 2007, 137, 2006-2012.	1.3	43
48	Lipoic Acid Reduces the Activities of Biotin-Dependent Carboxylases in Rat Liver ,. Journal of Nutrition, 1997, 127, 1776-1781.	1.3	42
49	A novel, enigmatic histone modification: biotinylation of histones by holocarboxylase synthetase. Nutrition Reviews, 2008, 66, 721-725.	2.6	42
50	Holocarboxylase synthetase is a chromatin protein and interacts directly with histone H3 to mediate biotinylation of K9 and K18. Journal of Nutritional Biochemistry, 2011, 22, 470-475.	1.9	42
51	The Role of Histone H4 Biotinylation in the Structure of Nucleosomes. PLoS ONE, 2011, 6, e16299.	1.1	42
52	Mitogen-induced proliferation increases biotin uptake into human peripheral blood mononuclear cells. American Journal of Physiology - Cell Physiology, 1999, 276, C1079-C1084.	2.1	41
53	Biotin Supplementation Increases Expression of Genes Encoding Interferon-Î³, Interleukin-1Î², and 3-Methylcrotonyl-CoA Carboxylase, and Decreases Expression of the Gene Encoding Interleukin-4 in Human Peripheral Blood Mononuclear Cells. Journal of Nutrition, 2003, 133, 716-719.	1.3	41
54	Expression of Oncogenes Depends on Biotin in Human Small Cell Lung Cancer Cells NCI-H69. International Journal for Vitamin and Nutrition Research, 2003, 73, 461-467.	0.6	41

#	Article	IF	Citations
55	Prokaryotic BirA ligase biotinylates K4, K9, K18 and K23 in histone H3. BMB Reports, 2008, 41, 310-315.	1.1	40
56	Biotinidase catalyzes debiotinylation of histones. European Journal of Nutrition, 2002, 41, 78-84.	1.8	39
57	The Nuclear Abundance of Transcription Factors Sp1 and Sp3 Depends on Biotin in Jurkat Cells. Journal of Nutrition, 2003, 133, 3409-3415.	1.3	39
58	HepG2 cells develop signs of riboflavin deficiency within 4 days of culture in riboflavin-deficient medium. Journal of Nutritional Biochemistry, 2005, 16, 617-624.	1.9	39
59	Oxidative Folding of Interleukin-2 Is Impaired in Flavin-Deficient Jurkat Cells, Causing Intracellular Accumulation of Interleukin-2 and Increased Expression of Stress Response Genes. Journal of Nutrition, 2003, 133, 668-672.	1.3	37
60	Clusters of biotin-responsive genes in human peripheral blood mononuclear cells. Journal of Nutritional Biochemistry, 2004, 15, 433-439.	1.9	37
61	Dietary Depletion of Milk Exosomes and Their MicroRNA Cargos Elicits a Depletion of miR-200a-3p and Elevated Intestinal Inflammation and Chemokine (C-X-C Motif) Ligand 9 Expression in Mdr1a Mice. Current Developments in Nutrition, 2019, 3, nzz122.	0.1	37
62	Concentrations of Purine Metabolites Are Elevated in Fluids from Adults and Infants and in Livers from Mice Fed Diets Depleted of Bovine Milk Exosomes and their RNA Cargos. Journal of Nutrition, 2018, 148, 1886-1894.	1.3	36
63	Monocarboxylate Transporter 1 Mediates Biotin Uptake in Human Peripheral Blood Mononuclear Cells. Journal of Nutrition, 2003, 133, 2703-2706.	1.3	35
64	Susceptibility to Heat Stress and Aberrant Gene Expression Patterns in Holocarboxylase Synthetase-Deficient Drosophila melanogaster Are Caused by Decreased Biotinylation of Histones, Not of Carboxylases2. Journal of Nutrition, 2007, 137, 885-889.	1.3	35
65	Jurkat Cells Respond to Biotin Deficiency with Increased Nuclear Translocation of NF-kB, Mediating Cell Survival. International Journal for Vitamin and Nutrition Research, 2004, 74, 209-216.	0.6	34
66	Biotinylation of K12 in Histone H4 Decreases in Response to DNA Double-Strand Breaks in Human JAr Choriocarcinoma Cells. Journal of Nutrition, 2005, 135, 2337-2342.	1.3	34
67	Milk exosomes and miRNA cross the placenta and promote embryo survival in mice. Reproduction, 2020, 160, 501-509.	1.1	34
68	Bovine milk-derived extracellular vesicles enhance inflammation and promote M1 polarization following agricultural dust exposure in mice. Journal of Nutritional Biochemistry, 2019, 64, 110-120.	1.9	33
69	Identification and assessment of markers of biotin status in healthy adults. British Journal of Nutrition, 2013, 110, 321-329.	1.2	31
70	Dietary MicroRNA Database (DMD): An Archive Database and Analytic Tool for Food-Borne microRNAs. PLoS ONE, 2015, 10, e0128089.	1.1	31
71	Biotin availability regulates expression of the sodium-dependent multivitamin transporter and the rate of biotin uptake in HepG2 cells. Molecular Genetics and Metabolism, 2005, 85, 301-307.	0.5	30
72	Interleukin-2 receptor-Î³-dependent endocytosis depends on biotin in Jurkat cells. American Journal of Physiology - Cell Physiology, 2003, 284, C415-C421.	2.1	29

#	Article	IF	Citations
73	Biotin requirements for DNA damage prevention. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2012, 733, 58-60.	0.4	29
74	Biotin deficiency decreases life span and fertility but increases stress resistance in Drosophila melanogaster. Journal of Nutritional Biochemistry, 2004, 15, 591-600.	1.9	28
75	Nuclear Receptors and Epigenetic Regulation: Opportunities for Nutritional Targeting and Disease Prevention. Advances in Nutrition, 2014, 5, 373-385.	2.9	28
76	Biotin Regulates the Expression of Holocarboxylase Synthetase in the miR-539 Pathway in HEK-293 Cells. Journal of Nutrition, 2010, 140, 1546-1551.	1.3	27
77	Diet-responsive MicroRNAs Are Likely Exogenous. Journal of Biological Chemistry, 2015, 290, 25197.	1.6	25
78	Proliferation of peripheral blood mononuclear cells causes increased expression of the sodium-dependent multivitamin transporter gene and increased uptake of pantothenic acid â˜† â˜†This work was supported by National Institutes of Health grant DK 36823, USDA/CSREES award 2001-35200-10187, and a grant from the College of Medicine at the University of Arkansas for Medical Sciences.. Journal of Nutritional Biochemistry, 2001, 12, 465-473.	1.9	24
79	N- and C-terminal domains in human holocarboxylase synthetase participate in substrate recognition. Molecular Genetics and Metabolism, 2009, 96, 183-188.	0.5	24
80	K12-biotinylated histone H4 is enriched in telomeric repeats from human lung IMR-90 fibroblasts. Journal of Nutritional Biochemistry, 2010, 21, 310-316.	1.9	24
81	Bovine Milk Extracellular Vesicles (EVs) Modification Elicits Skeletal Muscle Growth in Rats. Frontiers in Physiology, 2019, 10, 436.	1.3	24
82	Human peripheral blood mononuclear cells: Inhibition of biotin transport by reversible competition with pantothenic acid is quantitatively minor. Journal of Nutritional Biochemistry, 1999, 10, 427-432.	1.9	23
83	Holocarboxylase synthetase synergizes with methyl CpG binding protein 2 and DNA methyltransferase 1 in the transcriptional repression of long-terminal repeats. Epigenetics, 2013, 8, 504-511.	1.3	23
84	Low activity of LSD1 elicits a pro-inflammatory gene expression profile in riboflavin-deficient human T Lymphoma Jurkat cells. Genes and Nutrition, 2014, 9, 422.	1.2	23
85	Repression of Transposable Elements by Histone Biotinylation ,. Journal of Nutrition, 2009, 139, 2389-2392.	1.3	22
86	Biotin Requirements Are Lower in Human Jurkat Lymphoid Cells but Homeostatic Mechanisms Are Similar to Those of HepG2 Liver Cells. Journal of Nutrition, 2010, 140, 1086-1092.	1.3	22
87	Glucocorticoid Cell Priming Enhances Transfection Outcomes in Adult Human Mesenchymal Stem Cells. Molecular Therapy, 2016, 24, 331-341.	3.7	22
88	Biotin Supplementation Increases Expression of the Cytochrome P450 1B1 Gene in Jurkat Cells, Increasing the Occurrence of Single-Stranded DNA Breaks. Journal of Nutrition, 2004, 134, 2222-2228.	1.3	21
89	MicroRNAs in bovine milk exosomes are bioavailable in humans but do not elicit a robust pro-inflammatory cytokine response. ExRNA, 2020, 2, .	1.0	21
90	Biotin Uptake into Human Peripheral Blood Mononuclear Cells Increases Early in the Cell Cycle, Increasing Carboxylase Activities. Journal of Nutrition, 2002, 132, 1854-1859.	1.3	20

#	Article	IF	Citations
91	Holocarboxylase synthetase interacts physically with euchromatic histone-lysine N-methyltransferase, linking histone biotinylation with methylation events. Journal of Nutritional Biochemistry, 2013, 24, 1446-1452.	1.9	20
92	Off-target effects of sulforaphane include the derepression of long terminal repeats through histone acetylation events. Journal of Nutritional Biochemistry, 2014, 25, 665-668.	1.9	20
93	Epigenetic regulation of chromatin structure and gene function by biotin: are biotin requirements being met?. Nutrition Reviews, 2008, 66, S46-S48.	2.6	19
94	Inhibition of acetyl-CoA carboxylases by soraphen A prevents lipid accumulation and adipocyte differentiation in 3T3-L1 cells. European Journal of Pharmacology, 2016, 780, 202-208.	1.7	19
95	Depletion of Dietary Bovine Milk Exosomes Impairs Sensorimotor Gating and Spatial Learning in C57BL/6 Mice. FASEB Journal, 2017, 31, 150.4.	0.2	19
96	Intrauterine Vitamin B2 Uptake of Preterm and Full-Term Infants. Pediatric Research, 1995, 38, 585-591.	1.1	18
97	Synthesis of a Rabbit Polyclonal Antibody to the Human Sodium-Dependent Multivitamin Transporter. International Journal for Vitamin and Nutrition Research, 2002, 72, 195-198.	0.6	18
98	Diaminobiotin and Desthiobiotin Have Biotin-Like Activities in Jurkat Cells. Journal of Nutrition, 2003, 133, 1259-1264.	1.3	18
99	Biliary Excretion of Biotin and Biotin Metabolites Is Quantitatively Minor in Rats and Pigs , ,. Journal of Nutrition, 1997, 127, 1496-1500.	1.3	17
100	High-Throughput Immunoblotting Identifies Biotin-Dependent Signaling Proteins in HepG2 Hepatocarcinoma Cells. Journal of Nutrition, 2005, 135, 1659-1666.	1.3	17
101	Biotin supplementation decreases the expression of the SERCA3 gene (ATP2A3) in Jurkat cells, thus, triggering unfolded protein response. Journal of Nutritional Biochemistry, 2006, 17, 272-281.	1.9	17
102	Biotinylation of lysine 16 in histone H4 contributes toward nucleosome condensation. Archives of Biochemistry and Biophysics, 2013, 529, 105-111.	1.4	17
103	Isolation of extracellular vesicles from byproducts of cheesemaking by tangential flow filtration yields heterogeneous fractions of nanoparticles. Journal of Dairy Science, 2021, 104, 9478-9493.	1.4	17
104	Milk exosomes in nutrition and drug delivery. American Journal of Physiology - Cell Physiology, 2022, 322, C865-C874.	2.1	17
105	Chemical Synthesis of Biotinylated Histones and Analysis by Sodium Dodecyl Sulfateâ€“Polyacrylamide Gel Electrophoresis/Streptavidinâ€“Peroxidase. Archives of Biochemistry and Biophysics, 1999, 371, 83-88.	1.4	16
106	The expression of genes encoding ribosomal subunits and eukaryotic translation initiation factor 5A depends on biotin and bisnorbiotin in HepG2 cells. Journal of Nutritional Biochemistry, 2006, 17, 23-30.	1.9	16
107	Overview to Symposium â€œNutrients and Epigenetic Regulation of Gene Expressionâ€•. Journal of Nutrition, 2009, 139, 2387-2388.	1.3	16
108	Novel roles of holocarboxylase synthetase in gene regulation and intermediary metabolism. Nutrition Reviews, 2014, 72, 369-376.	2.6	16

#	Article	IF	Citations
109	Ruminant Milk-Derived Extracellular Vesicles: A Nutritional and Therapeutic Opportunity?. Nutrients, 2021, 13, 2505.	1.7	16
110	Small Extracellular Vesicles in Milk Cross the Blood-Brain Barrier in Murine Cerebral Cortex Endothelial Cells and Promote Dendritic Complexity in the Hippocampus and Brain Function in C57BL/6J Mice. Frontiers in Nutrition, 2022, 9, .	1.6	16
111	The efflux of biotin from human peripheral blood mononuclear cells. Journal of Nutritional Biochemistry, 1999, 10, 105-109.	1.9	15
112	Human holocarboxylase synthetase with a start site at methionine-58 is the predominant nuclear variant of this protein and has catalytic activity. Biochemical and Biophysical Research Communications, 2011, 412, 115-120.	1.0	15
113	Biotin dependency due to a defect in biotin transport. Journal of Clinical Investigation, 2002, 109, 1617-1623.	3.9	15
114	An avidin-based assay for histone debiotinylase activity in human cell nuclei. Journal of Nutritional Biochemistry, 2007, 18, 475-481.	1.9	14
115	Lysine biotinylation and methionine oxidation in the heat shock protein HSP60 synergize in the elimination of reactive oxygen species in human cell cultures. Journal of Nutritional Biochemistry, 2014, 25, 475-482.	1.9	14
116	Online Tools for Bioinformatics Analyses in Nutrition Sciences. Advances in Nutrition, 2012, 3, 654-665.	2.9	13
117	K16-biotinylated histone H4 is overrepresented in repeat regions and participates in the repression of transcriptionally competent genes in human Jurkat lymphoid cells. Journal of Nutritional Biochemistry, 2012, 23, 1559-1564.	1.9	13
118	Î²-Keto and Î²-hydroxyphosphonate analogs of biotin-5â€²-AMP are inhibitors of holocarboxylase synthetase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 5568-5571.	1.0	13
119	Proliferation of Peripheral Blood Mononuclear Cells Increases Riboflavin Influx. Proceedings of the Society for Experimental Biology and Medicine, 2000, 225, 72-79.	2.0	13
120	Cytosine methylation in miR-153 gene promoters increases the expression of holocarboxylase synthetase, thereby increasing the abundance of histone H4 biotinylation marks in HEK-293 human kidney cells. Journal of Nutritional Biochemistry, 2012, 23, 635-639.	1.9	12
121	Effects of single-nucleotide polymorphisms in the human holocarboxylase synthetase gene on enzyme catalysis. European Journal of Human Genetics, 2012, 20, 428-433.	1.4	11
122	Biotinylation of K8 and K12 coâ€•occurs with acetylation and monoâ€•methylation in human histone H4. FASEB Journal, 2006, 20, A610.	0.2	11
123	Sodium-Dependent Multivitamin Transporter Gene Is Regulated at the Chromatin Level by Histone Biotinylation in Human Jurkat Lymphoblastoma Cells. Journal of Nutrition, 2009, 139, 163-166.	1.3	10
124	Identification of holocarboxylase synthetase chromatin binding sites in human mammary cell lines using the DNA adenine methyltransferase identification technology. Analytical Biochemistry, 2011, 413, 55-59.	1.1	10
125	Holocarboxylase synthetase interacts physically with nuclear receptor co-repressor, histone deacetylase 1 and a novel splicing variant of histone deacetylase 1 to repress repeats. Biochemical Journal, 2014, 461, 477-486.	1.7	10
126	Reply to Witwer. Journal of Nutrition, 2014, 144, 1881.	1.3	10

#	Article	IF	Citations
127	Transcriptional Regulation of the Albumin Gene Depends on the Removal of Histone Methylation Marks by the FAD-Dependent Monoamine Oxidase Lysine-Specific Demethylase 1 in HepG2 Human Hepatocarcinoma Cells. Journal of Nutrition, 2014, 144, 997-1001.	1.3	10
128	The Bioavailability and Distribution of Bovine Milk Exosomes is Distinct from that of their Cargos in Mice. FASEB Journal, 2017, 31, 148.2.	0.2	10
129	Nitric Oxide Signaling Depends on Biotin in Jurkat Human Lymphoma Cells. Journal of Nutrition, 2009, 139, 429-433.	1.3	9
130	The role of holocarboxylase synthetase in genome stability is mediated partly by epigenomic synergies between methylation and biotinylation events. Epigenetics, 2011, 6, 892-894.	1.3	9
131	Holocarboxylase synthetase catalyzes biotinylation of heat shock protein 72, thereby inducing RANTES expression in HEK-293 cells. American Journal of Physiology - Cell Physiology, 2013, 305, C1240-C1245.	2.1	9
132	Bovine mammary alveolar MAC-T cells afford a tool for studies of bovine milk exosomes in drug delivery. International Journal of Pharmaceutics, 2021, 610, 121263.	2.6	9
133	Identification of Glycoproteins on the Surface of Bovine Milk Exosomes and Intestinal Cells that Facilitate Exosome Uptake in Human Colon Carcinoma Cacoâ€2 Cells. FASEB Journal, 2017, 31, 646.25.	0.2	8
134	Ultrasonication of Milk Decreases the Content of Exosomes and MicroRNAs in an Exosome-Defined Rodent Diet. Journal of Nutrition, 2022, 152, 961-970.	1.3	8
135	Biotinyl-methyl 4-(amidomethyl)benzoate is a competitive inhibitor of human biotinidase. Journal of Nutritional Biochemistry, 2008, 19, 826-832.	1.9	7
136	Class A scavenger receptor-1/2 facilitates the uptake of bovine milk exosomes in murine bone marrow-derived macrophages and C57BL/6J mice. American Journal of Physiology - Cell Physiology, 2021, 321, C607-C614.	2.1	7
137	MicroRNAs in chicken eggs are bioavailable in healthy adults and can modulate mRNA expression in peripheral blood mononuclear cells.. FASEB Journal, 2015, 29, LB322.	0.2	7
138	Biotin deficiency stimulates survival pathways in human lymphoma cells exposed to antineoplastic drugs. Journal of Nutritional Biochemistry, 2005, 16, 96-103.	1.9	6
139	The polypeptide Syn67 interacts physically with human holocarboxylase synthetase, but is not a target for biotinylation. Archives of Biochemistry and Biophysics, 2010, 495, 35-41.	1.4	6
140	A 96-well plate assay for high-throughput analysis of holocarboxylase synthetase activity. Clinica Chimica Acta, 2011, 412, 735-739.	0.5	6
141	A Diet Defined by its Content of Bovine Milk Exosomes Alters the Composition of the Intestinal Microbiome in C57BL/6 Mice. FASEB Journal, 2017, 31, .	0.2	6
142	Preliminary evidence that lectins in infant soy formula apparently bind bovine milk exosomes and prevent their absorption in healthy adults. BMC Nutrition, 2022, 8, 7.	0.6	6
143	Quantitation of Exosomes and Their MicroRNA Cargos in Frozen Human Milk. JPGN Reports, 2022, 3, e172.	0.2	6
144	Three promoters regulate the transcriptional activity of the human holocarboxylase synthetase gene. Journal of Nutritional Biochemistry, 2013, 24, 1963-1969.	1.9	4

#	Article	IF	Citations
145	Biokinetic analysis of vitamin absorption and disposition in humans. Methods in Enzymology, 1997, 281, 405-425.	0.4	2
146	Enrichment of meiotic recombination hotspot sequences by avidin capture technology. Gene, 2013, 516, 101-106.	1.0	2
147	Resveratrol compounds inhibit human holocarboxylase synthetase and cause a lean phenotype in Drosophila melanogaster. Journal of Nutritional Biochemistry, 2015, 26, 1379-1384.	1.9	2
148	Dietary Depletion of Bovine Milk Exosomes Elicits Changes in Amino Acid Metabolism in C57BL/6 Mice. FASEB Journal, 2017, 31, 135.3.	0.2	2
149	Holocarboxylase synthetase knockout is embryonic lethal in mice. PLoS ONE, 2022, 17, e0265539.	1.1	2
150	Nutrition, Histone Epigenetic Marks, and Disease. Epigenetics and Human Health, 2013, , 197-217.	0.2	1
151	Reply to B Fromm et al.. Journal of Nutrition, 2018, 148, 1508.	1.3	1
152	Comment on â€œThe Role of Human Breast-Milk Extracellular Vesicles in Child Health and Diseaseâ€• Advances in Nutrition, 2021, 12, 280.	2.9	1
153	Lifespan and resistance to heat stress depend on histone biotinylation in Drosophila melanogaster. FASEB Journal, 2006, 20, .	0.2	1
154	Vitamin-Dependent Modifications of Chromatin. , 2007, , .		1
155	Holocarboxylase synthetase physically interacts with histone H3 to mediate biotinylation of K9 and K18. FASEB Journal, 2009, 23, 555.3.	0.2	1
156	K12â€biotinylated histone H4 is enriched in human telomeric repeats. FASEB Journal, 2009, 23, 555.2.	0.2	1
157	Holocarboxylase synthetase (HLCS) interacts physically with nuclear corepressor (Nâ€CoR) and histone deacetylases (HDACs) to mediate gene repression. FASEB Journal, 2012, 26, 116.4.	0.2	1
158	Biotinylation of the câ€•myc promoter binding protein MBPâ€1 decreases câ€•myc expression in mammary carcinoma MCFâ€7 cells. FASEB Journal, 2013, 27, 639.8.	0.2	1
159	CHAPTER 10. Biochemistry of Biotin. Food and Nutritional Components in Focus, 2012, , 146-157.	0.1	0
160	A cell death assay for assessing the mitochondrial targeting of proteins. Journal of Nutritional Biochemistry, 2018, 56, 48-54.	1.9	0
161	MicroRNAs and exosomes in human milk. , 2021, , 337-356.		0
162	Roles for Biotinylation of Histones in Chromatin Structure. Oxidative Stress and Disease, 2005, , .	0.3	0

#	Article	IF	Citations
163	Pantothenic Acid and Biotin. Nutrition in Exercise and Sport, 2005, , 123-138.	0.1	0
164	Cell Senescence is Associated with Decreased Biotinylation of Histone H4 in IMR90 Human Fibroblasts. FASEB Journal, 2006, 20, A610.	0.2	0
165	Decreased histone biotinylation marks cells senescence. FASEB Journal, 2007, 21, A1106.	0.2	0
166	Proteinâ€protein interactions of human holocarboxylase synthetase reveals potential association with zincâ€finger proteins. FASEB Journal, 2007, 21, A1105.	0.2	0
167	K12 biotinylated histone H4 is enriched at human endogenous retrovirus promoter regions and may function in retroviral silencing. FASEB Journal, 2007, 21, A1106.	0.2	0
168	Biotinylation and methylation of histones play a role in regulation of genes associated with hydrogen peroxide induced oxidative stress. FASEB Journal, 2008, 22, 689.2.	0.2	0
169	Homeostasis of biotin in human lymphoma and liver cells. FASEB Journal, 2009, 23, 724.19.	0.2	0
170	Enrichment of H3K4bio, H3K9bio, H3K18bio, and H4K8bio in distinct genomic loci. FASEB Journal, 2009, 23, 555.4.	0.2	0
171	Characterization of the H4K16bio Mark in Human Lymphoid Cells. FASEB Journal, 2010, 24, 550.1.	0.2	0
172	Histone biotinylation is a naturally occurring phenomenon. FASEB Journal, 2010, 24, 107.1.	0.2	0
173	Biotinylation of K16 in histone H4 causes chromatin condensation. FASEB Journal, 2012, 26, 116.5.	0.2	0
174	Changes in the carboxylase profile are associated with early and late differentiation stages of osteoblasts and adipocytes from human mesenchymal stem cells. FASEB Journal, 2012, 26, 1018.1.	0.2	0
175	Identification of biotinâ€and holocarboxylase synthetaseâ€dependent microRNAs in human fibroblasts. FASEB Journal, 2012, 26, 647.3.	0.2	0
176	Identification of three promoters in the human holocarboxylase synthetase (HCS) gene. FASEB Journal, 2012, 26, 647.1.	0.2	0
177	Development of an outpatient biotin feeding protocol for studies of biotin requirements in adults. FASEB Journal, 2012, 26, 1018.3.	0.2	0
178	Acetylâ€CoA carboxylases are checkpoints in adipocyte differentiation. FASEB Journal, 2013, 27, 641.4.	0.2	0
179	Dietary sulforaphane elicits offâ€target effects at loci coding for long terminal repeats in lymphocytes from healthy adults and in IMRâ€90 fibroblast cultures, possibly impairing genome stability. FASEB Journal, 2013, 27, 370.6.	0.2	0
180	Epigenetic synergies between methyl donors and biotin in gene repression are mediated by holocarboxylase synthetase (HLCS). FASEB Journal, 2013, 27, 370.8.	0.2	0

#	Article	IF	Citations
181	Mechanisms of Gene Transcriptional Regulation through Biotin and Biotin-Binding Proteins in Mammals. , 2013, , 219-228.		0
182	Resveratrol compounds are potent inhibitors of human holocarboxylase synthetase and cause a lean phenotype in Drosophila melanogaster brummer mutants (1045.39). FASEB Journal, 2014, 28, 1045.39.	0.2	0
183	Transport of MicroRNAâ€Containing, Milkâ€Borne Extracellular Vesicles by Human Colon Carcinoma Caco2â€2 Cells. FASEB Journal, 2015, 29, 924.2.	0.2	0
184	Inhibition of acetylâ€CoA carboxylase activity prevents adipocyte differentiation in 3T3â€L1 cells. FASEB Journal, 2015, 29, 750.3.	0.2	0