Janos Zempleni

List of Publications by Year in Descending Order

178 papers	5,243 citations	40 h-index	65 g-index
190 ext. papers	6,212 ext. citations	4.3 avg, IF	6 L-index

#	Paper	IF	Citations
178	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	2.5	1
177	Quantitation of Exosomes and Their MicroRNA Cargos in Frozen Human Milk. *JPGN Reports*, **2022**, 3, e172	0.3	0
176	Holocarboxylase synthetase knockout is embryonic lethal in mice.. *PLoS ONE*, **2022**, 17, e0265539	3.7	0
175	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	6.5	0
174	MicroRNAs and exosomes in human milk **2021**, 337-356		
173	Comment on "The Role of Human Breast-Milk Extracellular Vesicles in Child Health and Disease". *Advances in Nutrition*, **2021**, 12, 280	10	1
172	Ruminant Milk-Derived Extracellular Vesicles: A Nutritional and Therapeutic Opportunity?. *Nutrients*, **2021**, 13,	6.7	4
171	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	4	3
170	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	5.4	1
169	MicroRNAs in bovine milk exosomes are bioavailable in humans but do not elicit a robust pro-inflammatory cytokine response. *ExRNA*, **2020**, 2,	4.2	6
168	Milk exosomes and miRNA cross the placenta and promote embryo survival in mice. *Reproduction*, **2020**, 160, 501-509	3.8	13
167	Protective Role of Shiitake Mushroom-Derived Exosome-Like Nanoparticles in D-Galactosamine and Lipopolysaccharide-Induced Acute Liver Injury in Mice. *Nutrients*, **2020**, 12,	6.7	24
166	Dietary bovine milk exosomes elicit changes in bacterial communities in C57BL/6 mice. *American Journal of Physiology - Renal Physiology*, **2019**, 317, G618-G624	5.1	47
165	Bovine Milk Extracellular Vesicles (EVs) Modification Elicits Skeletal Muscle Growth in Rats. *Frontiers in Physiology*, **2019**, 10, 436	4.6	11
164	NIH workshop on human milk composition: summary and visions. *American Journal of Clinical Nutrition*, **2019**, 110, 769-779	7	26
163	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 Mice. *Current Developments in Nutrition*, **2019**, 3, nzz122	0.4	14
162	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	2.8	32

161	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	6.3	25
160	Milk-Derived Exosomes and Metabolic Regulation. *Annual Review of Animal Biosciences*, **2019**, 7, 245-262	13.7	61
159	A cell death assay for assessing the mitochondrial targeting of proteins. *Journal of Nutritional Biochemistry*, **2018**, 56, 48-54	6.3	
158	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	4.1	58
157	Milk exosomes are bioavailable and distinct microRNA cargos have unique tissue distribution patterns. *Scientific Reports*, **2018**, 8, 11321	4.9	165
156	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	4.1	18
155	Reply to B Fromm et al. *Journal of Nutrition*, **2018**, 148, 1508	4.1	1
154	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	6.3	30
153	Nutrition, microRNAs, and Human Health. *Advances in Nutrition*, **2017**, 8, 105-112	10	98
152	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	4.1	134
151	Depletion of Dietary Bovine Milk Exosomes Impairs Sensorimotor Gating and Spatial Learning in C57BL/6 Mice. *FASEB Journal*, **2017**, 31, 150.4	0.9	12
150	Identification of Glycoproteins on the Surface of Bovine Milk Exosomes and Intestinal Cells that Facilitate Exosome Uptake in Human Colon Carcinoma Caco-2 Cells. *FASEB Journal*, **2017**, 31, 646.25	0.9	5
149	Dietary Depletion of Bovine Milk Exosomes Elicits Changes in Amino Acid Metabolism in C57BL/6 Mice. *FASEB Journal*, **2017**, 31, 135.3	0.9	1
148	The Bioavailability and Distribution of Bovine Milk Exosomes is Distinct from that of their Cargos in Mice. *FASEB Journal*, **2017**, 31, 148.2	0.9	7
147	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,	0.9	5
146	Riboflavin. *Advances in Nutrition*, **2016**, 7, 973-5	10	53
145	Glucocorticoid Cell Priming Enhances Transfection Outcomes in Adult Human Mesenchymal Stem Cells. *Molecular Therapy*, **2016**, 24, 331-341	11.7	17
144	Inhibition of acetyl-CoA carboxylases by soraphen A prevents lipid accumulation and adipocyte differentiation in 3T3-L1 cells. *European Journal of Pharmacology*, **2016**, 780, 202-8	5.3	14

143	Human vascular endothelial cells transport foreign exosomes from cow's milk by endocytosis. *American Journal of Physiology - Cell Physiology*, **2016**, 310, C800-7	5.4	117
142	Resveratrol compounds inhibit human holocarboxylase synthetase and cause a lean phenotype in Drosophila melanogaster. *Journal of Nutritional Biochemistry*, **2015**, 26, 1379-84	6.3	2
141	Gene regulation by dietary microRNAs. *Canadian Journal of Physiology and Pharmacology*, **2015**, 93, 1097-102	2.4	41
140	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, 2201-6	4.1	198
139	Diet-responsive MicroRNAs Are Likely Exogenous. *Journal of Biological Chemistry*, **2015**, 290, 25197	5.4	24
138	Computational Characterization of Exogenous MicroRNAs that Can Be Transferred into Human Circulation. *PLoS ONE*, **2015**, 10, e0140587	3.7	47
137	Loss of miRNAs during processing and storage of cow's (Bos taurus) milk. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 588-92	5.7	90
136	Dietary MicroRNA Database (DMD): An Archive Database and Analytic Tool for Food-Borne microRNAs. *PLoS ONE*, **2015**, 10, e0128089	3.7	20
135	MicroRNAs in chicken eggs are bioavailable in healthy adults and can modulate mRNA expression in peripheral blood mononuclear cells.. *FASEB Journal*, **2015**, 29, LB322	0.9	6
134	Transport of MicroRNA-Containing, Milk-Borne Extracellular Vesicles by Human Colon Carcinoma Caco-2 Cells. *FASEB Journal*, **2015**, 29, 924.2	0.9	
133	Inhibition of acetyl-CoA carboxylase activity prevents adipocyte differentiation in 3T3-L1 cells. *FASEB Journal*, **2015**, 29, 750.3	0.9	
132	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, 475-82	6.3	11
131	Novel roles of holocarboxylase synthetase in gene regulation and intermediary metabolism. *Nutrition Reviews*, **2014**, 72, 369-76	6.4	9
130	Nuclear receptors and epigenetic regulation: opportunities for nutritional targeting and disease prevention. *Advances in Nutrition*, **2014**, 5, 373-85	10	24
129	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, 1495-500	4.1	278
128	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	4.3	22
127	Off-target effects of sulforaphane include the derepression of long terminal repeats through histone acetylation events. *Journal of Nutritional Biochemistry*, **2014**, 25, 665-8	6.3	15
126	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, 477-86	3.8	10

125	Reply to Witwer. *Journal of Nutrition*, **2014**, 144, 1881-1881	4.1	6
124	Keto and hydroxyphosphonate analogs of biotin-5-AMP are inhibitors of holocarboxylase synthetase. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 5568-5571	2.9	8
123	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	4.1	8
122	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	0.9	
121	Nutrition, Histone Epigenetic Marks, and Disease. *Epigenetics and Human Health*, **2013**, 197-217		1
120	Enrichment of meiotic recombination hotspot sequences by avidin capture technology. *Gene*, **2013**, 516, 101-6	3.8	1
119	Holocarboxylase synthetase interacts physically with euchromatic histone-lysine N-methyltransferase, linking histone biotinylation with methylation events. *Journal of Nutritional Biochemistry*, **2013**, 24, 1446-52	6.3	18
118	Biotinylation of lysine 16 in histone H4 contributes toward nucleosome condensation. *Archives of Biochemistry and Biophysics*, **2013**, 529, 105-11	4.1	16
117	Three promoters regulate the transcriptional activity of the human holocarboxylase synthetase gene. *Journal of Nutritional Biochemistry*, **2013**, 24, 1963-9	6.3	3
116	Holocarboxylase synthetase synergizes with methyl CpG binding protein 2 and DNA methyltransferase 1 in the transcriptional repression of long-terminal repeats. *Epigenetics*, **2013**, 8, 504-11	5.7	21
115	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, C1240-5	5.4	8
114	Identification and assessment of markers of biotin status in healthy adults. *British Journal of Nutrition*, **2013**, 110, 321-9	3.6	27
113	Acetyl-CoA carboxylases are checkpoints in adipocyte differentiation. *FASEB Journal*, **2013**, 27, 641.4	0.9	
112	Dietary sulforaphane elicits off-target effects at loci coding for long terminal repeats in lymphocytes from healthy adults and in IMR-90 fibroblast cultures, possibly impairing genome stability. *FASEB Journal*, **2013**, 27, 370.6	0.9	
111	Epigenetic synergies between methyl donors and biotin in gene repression are mediated by holocarboxylase synthetase (HLCS). *FASEB Journal*, **2013**, 27, 370.8	0.9	
110	Biotinylation of the c-myc promoter binding protein MBP-1 decreases c-myc expression in mammary carcinoma MCF-7 cells. *FASEB Journal*, **2013**, 27, 639.8	0.9	1
109	Mechanisms of Gene Transcriptional Regulation through Biotin and Biotin-Binding Proteins in Mammals **2013**, 219-228		
108	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, 635-9	6.3	11

107	Biotin requirements for DNA damage prevention. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2012**, 733, 58-60	3.3	20
106	Online tools for bioinformatics analyses in nutrition sciences. *Advances in Nutrition*, **2012**, 3, 654-65	10	12
105	CHAPTER 10:Biochemistry of Biotin. *Food and Nutritional Components in Focus*, **2012**, 146-157		
104	Biotin. *Advances in Nutrition*, **2012**, 3, 213-4	10	34
103	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, 1559-64	6.3	12
102	Effects of single-nucleotide polymorphisms in the human holocarboxylase synthetase gene on enzyme catalysis. *European Journal of Human Genetics*, **2012**, 20, 428-33	5.3	10
101	Biotinylation of K16 in histone H4 causes chromatin condensation. *FASEB Journal*, **2012**, 26, 116.5	0.9	
100	Holocarboxylase synthetase (HLCS) interacts physically with nuclear corepressor (N-CoR) and histone deacetylases (HDACs) to mediate gene repression. *FASEB Journal*, **2012**, 26, 116.4	0.9	1
99	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	0.9	
98	Identification of biotin- and holocarboxylase synthetase-dependent microRNAs in human fibroblasts. *FASEB Journal*, **2012**, 26, 647.3	0.9	
97	Identification of three promoters in the human holocarboxylase synthetase (HCS) gene. *FASEB Journal*, **2012**, 26, 647.1	0.9	
96	Development of an outpatient biotin feeding protocol for studies of biotin requirements in adults. *FASEB Journal*, **2012**, 26, 1018.3	0.9	
95	A 96-well plate assay for high-throughput analysis of holocarboxylase synthetase activity. *Clinica Chimica Acta*, **2011**, 412, 735-9	6.2	6
94	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, 115-20	3.4	12
93	Biotinylation is a natural, albeit rare, modification of human histones. *Molecular Genetics and Metabolism*, **2011**, 104, 537-45	3.7	49
92	Identification of holocarboxylase synthetase chromatin binding sites in human mammary cell lines using the DNA adenine methyltransferase identification technology. *Analytical Biochemistry*, **2011**, 413, 55-9	3.1	9
91	Novel histone biotinylation marks are enriched in repeat regions and participate in repression of transcriptionally competent genes. *Journal of Nutritional Biochemistry*, **2011**, 22, 328-33	6.3	40
90	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, 470-5	6.3	35

89	The role of holocarboxylase synthetase in genome stability is mediated partly by epigenomic synergies between methylation and biotinylation events. *Epigenetics*, **2011**, 6, 892-4	5.7	7
88	The role of histone H4 biotinylation in the structure of nucleosomes. *PLoS ONE*, **2011**, 6, e16299	3.7	35
87	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, 1086-92	4.1	18
86	Biotin regulates the expression of holocarboxylase synthetase in the miR-539 pathway in HEK-293 cells. *Journal of Nutrition*, **2010**, 140, 1546-51	4.1	24
85	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	4.1	6
84	K12-biotinylated histone H4 is enriched in telomeric repeats from human lung IMR-90 fibroblasts. *Journal of Nutritional Biochemistry*, **2010**, 21, 310-6	6.3	24
83	Characterization of the H4K16bio Mark in Human Lymphoid Cells. *FASEB Journal*, **2010**, 24, 550.1	0.9	
82	Histone biotinylation is a naturally occurring phenomenon. *FASEB Journal*, **2010**, 24, 107.1	0.9	
81	Nitric oxide signaling depends on biotin in Jurkat human lymphoma cells. *Journal of Nutrition*, **2009**, 139, 429-33	4.1	9
80	Repression of transposable elements by histone biotinylation. *Journal of Nutrition*, **2009**, 139, 2389-92	4.1	19
79	Overview to symposium "Nutrients and epigenetic regulation of gene expression". *Journal of Nutrition*, **2009**, 139, 2387-8	4.1	14
78	Sodium-dependent multivitamin transporter gene is regulated at the chromatin level by histone biotinylation in human Jurkat lymphoblastoma cells. *Journal of Nutrition*, **2009**, 139, 163-6	4.1	10
77	Biotin. *BioFactors*, **2009**, 35, 36-46	6.1	213
76	N- and C-terminal domains in human holocarboxylase synthetase participate in substrate recognition. *Molecular Genetics and Metabolism*, **2009**, 96, 183-8	3.7	22
75	Homeostasis of biotin in human lymphoma and liver cells. *FASEB Journal*, **2009**, 23, 724.19	0.9	
74	Holocarboxylase synthetase physically interacts with histone H3 to mediate biotinylation of K9 and K18. *FASEB Journal*, **2009**, 23, 555.3	0.9	1
73	K12-biotinylated histone H4 is enriched in human telomeric repeats. *FASEB Journal*, **2009**, 23, 555.2	0.9	
72	Enrichment of H3K4bio, H3K9bio, H3K18bio, and H4K8bio in distinct genomic loci. *FASEB Journal*, **2009**, 23, 555.4	0.9	

71	Epigenetic regulation of chromatin structure and gene function by biotin: are biotin requirements being met?. *Nutrition Reviews*, **2008**, 66 Suppl 1, S46-8	6.4	17
70	A novel, enigmatic histone modification: biotinylation of histones by holocarboxylase synthetase. *Nutrition Reviews*, **2008**, 66, 721-5	6.4	32
69	Biotin and biotinidase deficiency. *Expert Review of Endocrinology and Metabolism*, **2008**, 3, 715-724	4.1	100
68	Biotinylation of histones represses transposable elements in human and mouse cells and cell lines and in Drosophila melanogaster. *Journal of Nutrition*, **2008**, 138, 2316-22	4.1	56
67	Holocarboxylase synthetase regulates expression of biotin transporters by chromatin remodeling events at the SMVT locus. *Journal of Nutritional Biochemistry*, **2008**, 19, 400-8	6.3	49
66	Biotinyl-methyl 4-(amidomethyl)benzoate is a competitive inhibitor of human biotinidase. *Journal of Nutritional Biochemistry*, **2008**, 19, 826-32	6.3	5
65	Prokaryotic BirA ligase biotinylates K4, K9, K18 and K23 in histone H3. *BMB Reports*, **2008**, 41, 310-5	5.5	38
64	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	0.9	
63	Susceptibility to heat stress and aberrant gene expression patterns in holocarboxylase synthetase-deficient Drosophila melanogaster are caused by decreased biotinylation of histones, not of carboxylases. *Journal of Nutrition*, **2007**, 137, 885-9	4.1	33
62	Feeding Drosophila a biotin-deficient diet for multiple generations increases stress resistance and lifespan and alters gene expression and histone biotinylation patterns. *Journal of Nutrition*, **2007**, 137, 2006-12	4.1	35
61	An avidin-based assay for histone debiotinylase activity in human cell nuclei. *Journal of Nutritional Biochemistry*, **2007**, 18, 475-81	6.3	14
60	K12-biotinylated histone H4 marks heterochromatin in human lymphoblastoma cells. *Journal of Nutritional Biochemistry*, **2007**, 18, 760-8	6.3	64
59	Decreased histone biotinylation marks cells senescence. *FASEB Journal*, **2007**, 21, A1106	0.9	
58	Protein-protein interactions of human holocarboxylase synthetase reveals potential association with zinc-finger proteins. *FASEB Journal*, **2007**, 21, A1105	0.9	
57	K12 biotinylated histone H4 is enriched at human endogenous retrovirus promoter regions and may function in retroviral silencing. *FASEB Journal*, **2007**, 21, A1106	0.9	
56	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, 250-6	6.3	50
55	Biotin supplementation decreases the expression of the SERCA3 gene (ATP2A3) in Jurkat cells, thus, triggering unfolded protein response. *Journal of Nutritional Biochemistry*, **2006**, 17, 272-81	6.3	10
54	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, 2735-42	4.1	62

53	Epigenetic regulation of chromatin structure and gene function by biotin. *Journal of Nutrition*, **2006**, 136, 1763-5	4.1	64
52	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	6.3	16
51	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, 225-33	6.3	81
50	Biotinylation of K8 and K12 co-occurs with acetylation and mono-methylation in human histone H4. *FASEB Journal*, **2006**, 20, A610	0.9	11
49	Cell Senescence is Associated with Decreased Biotinylation of Histone H4 in IMR90 Human Fibroblasts. *FASEB Journal*, **2006**, 20, A610	0.9	
48	Uptake, localization, and noncarboxylase roles of biotin. *Annual Review of Nutrition*, **2005**, 25, 175-96	9.9	133
47	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, 301-7	3.7	24
46	Riboflavin deficiency impairs oxidative folding and secretion of apolipoprotein B-100 in HepG2 cells, triggering stress response systems. *Journal of Nutrition*, **2005**, 135, 978-82	4.1	51
45	HepG2 cells develop signs of riboflavin deficiency within 4 days of culture in riboflavin-deficient medium. *Journal of Nutritional Biochemistry*, **2005**, 16, 617-24	6.3	36
44	K4, K9 and K18 in human histone H3 are targets for biotinylation by biotinidase. *FEBS Journal*, **2005**, 272, 4249-59	5.7	70
43	Biotin deficiency stimulates survival pathways in human lymphoma cells exposed to antineoplastic drugs. *Journal of Nutritional Biochemistry*, **2005**, 16, 96-103	6.3	6
42	Biological functions of biotinylated histones. *Journal of Nutritional Biochemistry*, **2005**, 16, 446-8	6.3	65
41	Biotinylation of K12 in histone H4 decreases in response to DNA double-strand breaks in human JAr choriocarcinoma cells. *Journal of Nutrition*, **2005**, 135, 2337-42	4.1	30
40	High-throughput immunoblotting identifies biotin-dependent signaling proteins in HepG2 hepatocarcinoma cells. *Journal of Nutrition*, **2005**, 135, 1659-66	4.1	16
39	Pantothenic Acid and Biotin. *Nutrition in Exercise and Sport*, **2005**, 123-138		
38	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, 2222-8	4.1	19
37	Jurkat cells respond to biotin deficiency with increased nuclear translocation of NF-kappaB, mediating cell survival. *International Journal for Vitamin and Nutrition Research*, **2004**, 74, 209-16	1.7	28
36	K8 and K12 are biotinylated in human histone H4. *FEBS Journal*, **2004**, 271, 2257-63		84

35	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	5.2	52
34	Clusters of biotin-responsive genes in human peripheral blood mononuclear cells. *Journal of Nutritional Biochemistry*, **2004**, 15, 433-9	6.3	30
33	Biotin deficiency decreases life span and fertility but increases stress resistance in Drosophila melanogaster. *Journal of Nutritional Biochemistry*, **2004**, 15, 591-600	6.3	22
32	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, 668-72	4.1	33
31	Diaminobiotin and desthiobiotin have biotin-like activities in Jurkat cells. *Journal of Nutrition*, **2003**, 133, 1259-64	4.1	17
30	The nuclear abundance of transcription factors Sp1 and Sp3 depends on biotin in Jurkat cells. *Journal of Nutrition*, **2003**, 133, 3409-15	4.1	34
29	Monocarboxylate transporter 1 mediates biotin uptake in human peripheral blood mononuclear cells. *Journal of Nutrition*, **2003**, 133, 2703-6	4.1	27
28	Interleukin-2 receptor-gamma -dependent endocytosis depends on biotin in Jurkat cells. *American Journal of Physiology - Cell Physiology*, **2003**, 284, C415-21	5.4	25
27	Biotin supplementation increases expression of genes encoding interferon-gamma, interleukin-1beta, 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, 716-9	4.1	33
26	Regulation of gene expression by biotin (review). *Journal of Nutritional Biochemistry*, **2003**, 14, 680-90	6.3	115
25	Expression of oncogenes depends on biotin in human small cell lung cancer cells NCI-H69. *International Journal for Vitamin and Nutrition Research*, **2003**, 73, 461-7	1.7	34
24	Biotin uptake into human peripheral blood mononuclear cells increases early in the cell cycle, increasing carboxylase activities. *Journal of Nutrition*, **2002**, 132, 1854-9	4.1	14
23	Exposure to UV light causes increased biotinylation of histones in Jurkat cells. *American Journal of Physiology - Cell Physiology*, **2002**, 283, C878-84	5.4	44
22	Biotinidase catalyzes debiotinylation of histones. *European Journal of Nutrition*, **2002**, 41, 78-84	5.2	34
21	Synthesis of a rabbit polyclonal antibody to the human sodium-dependent multivitamin transporter. *International Journal for Vitamin and Nutrition Research*, **2002**, 72, 195-8	1.7	18
20	Biotin supply affects expression of biotin transporters, biotinylation of carboxylases and metabolism of interleukin-2 in Jurkat cells. *Journal of Nutrition*, **2002**, 132, 887-92	4.1	81
19	Biotin dependency due to a defect in biotin transport. *Journal of Clinical Investigation*, **2002**, 109, 1617-1623	15.9	53
18	Biotin dependency due to a defect in biotin transport. *Journal of Clinical Investigation*, **2002**, 109, 1617-23	15.9	12

17	Biotinylation of histones in human cells. Effects of cell proliferation. *FEBS Journal*, **2001**, 268, 5424-9		124
16	Proliferation of peripheral blood mononuclear cells causes increased expression of the sodium-dependent multivitamin transporter gene and increased uptake of pantothenic acidopen star. *Journal of Nutritional Biochemistry*, **2001**, 12, 465-473	6.3	23
15	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, 1479-84	4.1	46
14	Marginal biotin deficiency is teratogenic. *Proceedings of the Society for Experimental Biology and Medicine*, **2000**, 223, 14-21		68
13	Proliferation of peripheral blood mononuclear cells increases riboflavin influx. *Proceedings of the Society for Experimental Biology and Medicine*, **2000**, 225, 72-9		10
12	Mitogen-induced proliferation increases biotin uptake into human peripheral blood mononuclear cells. *American Journal of Physiology - Cell Physiology*, **1999**, 276, C1079-84	5.4	35
11	Human peripheral blood mononuclear cells: ; Inhibition of biotin transport by reversible competition with pantothenic acid is quantitatively minor. *Journal of Nutritional Biochemistry*, **1999**, 10, 427-32	6.3	18
10	The efflux of biotin from human peripheral blood mononuclear cells. *Journal of Nutritional Biochemistry*, **1999**, 10, 105-9	6.3	12
9	Biotin biochemistry and human requirements. *Journal of Nutritional Biochemistry*, **1999**, 10, 128-38	6.3	110
8	Chemical synthesis of biotinylated histones and analysis by sodium dodecyl sulfate-polyacrylamide gel electrophoresis/streptavidin-peroxidase. *Archives of Biochemistry and Biophysics*, **1999**, 371, 83-8	4.1	14
7	Bioavailability of biotin given orally to humans in pharmacologic doses. *American Journal of Clinical Nutrition*, **1999**, 69, 504-8	7	43
6	Uptake and metabolism of biotin by human peripheral blood mononuclear cells. *American Journal of Physiology - Cell Physiology*, **1998**, 275, C382-8	5.4	70
5	Lipoic acid reduces the activities of biotin-dependent carboxylases in rat liver. *Journal of Nutrition*, **1997**, 127, 1776-81	4.1	35
4	Biokinetic analysis of vitamin absorption and disposition in humans. *Methods in Enzymology*, **1997**, 281, 405-25	1.7	2
3	Biliary excretion of biotin and biotin metabolites is quantitatively minor in rats and pigs. *Journal of Nutrition*, **1997**, 127, 1496-500	4.1	11
2	Intrauterine vitamin B2 uptake of preterm and full-term infants. *Pediatric Research*, **1995**, 38, 585-91	3.2	15
1	Dietary Bovine Milk Exosomes Elicit Changes in Microbial Communities in C57BL/6 Mice		2