Armando R Tovar

List of Publications by Year
in descending order

122 papers	4,363 citations	35 h-index	61 g-index
129 all docs	129 docs citations	129 times ranked	6435 citing authors

109321
123424

#	Article	IF	Citations
1	Modulation of gut microbiota by Mantequilla and Melipona honeys decrease low-grade inflammation caused by high fructose corn syrup or sucrose in rats. Food Research International, 2022, 151, 110856.	6.2	8
2	Genistein Stimulation of White Adipose Tissue Thermogenesis Is Partially Dependent on GPR30 in Mice. Molecular Nutrition and Food Research, 2022, 66, e2100838.	3.3	6
3	Antidiabetic Sterols from <i>Peniocereus greggii</i> Roots. ACS Omega, 2022, 7, 13144-13154.	3.5	2
4	Bioactive Foods Decrease Liver and Brain Alterations Induced by a High-Fat-Sucrose Diet through Restoration of Gut Microbiota and Antioxidant Enzymes. Nutrients, 2022, 14, 22.	4.1	12
5	Effect of the intake of dietary protein on insulin resistance in subjects with obesity: a randomized controlled clinical trial. European Journal of Nutrition, 2021, 60, 2435-2447.	3.9	9
6	PPARÎ±/RXRÎ± downregulates amino acid catabolism in the liver via interaction with HNF4Î± promoting its proteasomal degradation. Metabolism: Clinical and Experimental, 2021, 116, 154705.	3.4	7
7	SIRT7 modulates the stability and activity of the renal Kâ€Cl cotransporter KCC4 through deacetylation. EMBO Reports, 2021, 22, e50766.	4.5	11
8	Pharmacological inhibition of tumor anabolism and host catabolism as a cancer therapy. Scientific Reports, 2021, 11, 5222.	3.3	7
9	Effect of a dietary intervention with functional foods on LDL-C concentrations and lipoprotein subclasses in overweight subjects with hypercholesterolemia: Results of a controlled trial. Clinical Nutrition, 2021, 40, 2527-2534.	5.0	4
10	SWATH-MS proteomics of PANC-1 and MIA PaCa-2 pancreatic cancer cells allows identification of drug targets alternative to MEK and PI3K inhibition. Biochemical and Biophysical Research Communications, 2021, 552, 23-29.	2.1	4
11	Serum amino acid concentrations are modified by age, insulin resistance, and BCAT2 rs11548193 and BCKDH rs45500792 polymorphisms in subjects with obesity. Clinical Nutrition, 2021, 40, 4209-4215.	5.0	7
12	16Î±â€Bromoepiandrosterone as a new candidate for experimental diabetesâ€“tuberculosis coâ€morbidity treatment. Clinical and Experimental Immunology, 2021, 205, 232-245.	2.6	4
13	The capacity of differentiation of stromal vascular fraction cells into beige adipocytes is markedly reduced in subjects with overweight/obesity and insulin resistance: effect of genistein. International Journal of Obesity, 2021, 45, 2471-2481.	3.4	7
14	Association of BCAT2 and BCKDH polymorphisms with clinical, anthropometric and biochemical parameters in young adults. Nutrition, Metabolism and Cardiovascular Diseases, 2021, 31, 3210-3218.	2.6	2
15	Consumption of soybean or olive oil at recommended concentrations increased the intestinal microbiota diversity and insulin sensitivity and prevented fatty liver compared to the effects of coconut oil. Journal of Nutritional Biochemistry, 2021, 94, 108751.	4.2	18
16	The Present and Future of Personalized Nutrition. Revista De Investigacion Clinica, 2021, 73, 321-325.	0.4	1
17	Dietary bioactive compounds as modulators of mitochondrial function. Journal of Nutritional Biochemistry, 2021, 96, 108768.	4.2	13
18	Caffeoylquinic Acid Derivatives of Purple Sweet Potato as Modulators of Mitochondrial Function in Mouse Primary Hepatocytes. Molecules, 2021, 26, 319.	3.8	10

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19	Endocrine Regulation of Brown and Beige Adipose Tissue. , 2021, , 247-259.		2
20	Oxalate Content and Antioxidant Activity of Different Ethnic Foods. , 2021, 31, 73-79.		9
21	Angiotensin-(1-7) induces beige fat thermogenesis through the Mas receptor. Metabolism: Clinical and Experimental, 2020, 103, 154048.	3.4	19
22	Black bean protein concentrate ameliorates hepatic steatosis by decreasing lipogenesis and increasing fatty acid oxidation in rats fed a high fat-sucrose diet. Food and Function, 2020, 11, 10341-10350.	4.6	10
23	Antibiotic Treatment Reduces the Health Benefits of Soy Protein. Molecular Nutrition and Food Research, 2020, 64, e2000532.	3.3	5
24	The development of metabolic endotoxemia is dependent on the type of sweetener and the presence of saturated fat in the diet. Gut Microbes, 2020, 12, 1801301.	9.8	42
25	Consumption of Cooked Black Beans Stimulates a Cluster of Some Clostridia Class Bacteria Decreasing Inflammatory Response and Improving Insulin Sensitivity. Nutrients, 2020, 12, 1182.	4.1	22
26	Genistein stimulates insulin sensitivity through gut microbiota reshaping and skeletal muscle AMPK activation in obese subjects. BMJ Open Diabetes Research and Care, 2020, 8, e000948.	2.8	59
27	The combination of orlistat, lonidamine and 6â€'diazoâ€'5â€'oxoâ€'Lâ€'norleucine induces a quiescent energetic phenotype and limits substrate flexibility in colon cancer cells. Oncology Letters, 2020, 20, 3053-3060.	1.8	8
28	Diet as Regulator of Gut Microbiota and its Role in Health and Disease. Archives of Medical Research, 2019, 50, 259-268.	3.3	49
29	Improvement of Lipoprotein Profile and Metabolic Endotoxemia by a Lifestyle Intervention That Modifies the Gut Microbiota in Subjects With Metabolic Syndrome. Journal of the American Heart Association, 2019, 8, e012401.	3.7	77
30	Development of a Genetic Score to Predict an Increase in HDL Cholesterol Concentration After a Dietary Intervention in Adults with Metabolic Syndrome. Journal of Nutrition, 2019, 149, 1116-1121.	2.9	5
31	Natural and Artificial Sweeteners and High Fat Diet Modify Differential Taste Receptors, Insulin, and TLR4-Mediated Inflammatory Pathways in Adipose Tissues of Rats. Nutrients, 2019, 11, 880.	4.1	22
32	Multi-target antidiabetic mechanisms of mexicanolides from Swietenia humilis. Phytomedicine, 2019, 58, 152891.	5.3	11
33	Genistein increases the thermogenic program of subcutaneous WAT and increases energy expenditure in mice. Journal of Nutritional Biochemistry, 2019, 68, 59-68.	4.2	35
34	Nutrigenomics as a Tool in the Prevention of Lipotoxicity: The Case of Soy Protein. Revista De Investigacion Clinica, 2019, 71, 157-167.	0.4	2
35	Reply-Letter to the Editorâ€"Superiority of new predictive equation for resting energy expenditure. Clinical Nutrition, 2018, 37, 1085-1086.	5.0	0
36	Adiponectin synthesis and secretion by subcutaneous adipose tissue is impaired during obesity by endoplasmic reticulum stress. Journal of Cellular Biochemistry, 2018, 119, 5970-5984.	2.6	41

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37	Emerging perspectives on branched-chain amino acid metabolism during adipocyte differentiation. Current Opinion in Clinical Nutrition and Metabolic Care, 2018, 21, 49-57.	2.5	10
38	Inactivation of SPAK kinase reduces body weight gain in mice fed a high-fat diet by improving energy expenditure and insulin sensitivity. American Journal of Physiology - Endocrinology and Metabolism, 2018, 314, E53-E65.	3.5	12
39	Development and validation of new predictive equation for resting energy expenditure in adults with overweight and obesity. Clinical Nutrition, 2018, 37, 2198-2205.	5.0	13
40	Interaction between leucine and palmitate catabolism in 3T3-L1 adipocytes and primary adipocytes from control and obese rats. Journal of Nutritional Biochemistry, 2018, 59, 29-36.	4.2	6
41	Longâ€Term Genistein Consumption Modifies Gut Microbiota, Improving Glucose Metabolism, Metabolic Endotoxemia, and Cognitive Function in Mice Fed a Highâ€Fat Diet. Molecular Nutrition and Food Research, 2018, 62, e1800313.	3.3	64
42	Introduction to the Yogurt in Nutrition Initiative at the First Symposium of Yogurt in Mexico: The Balanced Diet Initiative. Advances in Nutrition, 2017, 8, 144S-145S.	6.4	4
43	Understanding the Biology of Thermogenic Fat: Is Browning A New Approach to the Treatment of Obesity?. Archives of Medical Research, 2017, 48, 401-413.	3.3	78
44	Nopal (Opuntia ficus indica) protects from metabolic endotoxemia by modifying gut microbiota in obese rats fed high fat/sucrose diet. Scientific Reports, 2017, 7, 4716.	3.3	63
45	Metabolic Fate of Branchedâ€Chain Amino Acids During Adipogenesis, in Adipocytes From Obese Mice and C2C12 Myotubes. Journal of Cellular Biochemistry, 2017, 118, 808-818.	2.6	32
46	Nopal feeding reduces adiposity, intestinal inflammation and shifts the cecal microbiota and metabolism in high-fat fed rats. PLoS ONE, 2017, 12, e0171672.	2.5	28
47	Hepatic miRâ€33a/miRâ€144 and their target gene <i>ABCA1</i> are associated with steatohepatitis in morbidly obese subjects. Liver International, 2016, 36, 1383-1391.	3.9	69
48	Insulin and SGK1 reduce the function of Na⁺/monocarboxylate transporter 1 (SMCT1/SLC5A8). American Journal of Physiology - Cell Physiology, 2016, 311, C720-C734.	4.6	9
49	PPARÎ± Downregulates Hepatic Glutaminase Expression in Mice Fed Diets with Different Protein:Carbohydrate Ratios. Journal of Nutrition, 2016, 146, 1634-1640.	2.9	8
50	Aguamiel concentrate from Agave salmiana and its extracted saponins attenuated obesity and hepatic steatosis and increased Akkermansia muciniphila in C57BL6 mice. Scientific Reports, 2016, 6, 34242.	3.3	71
51	Autologous subcutaneous adipose tissue transplants improve adipose tissue metabolism and reduce insulin resistance and fatty liver in diet-induced obesity rats. Physiological Reports, 2016, 4, e12909.	1.7	14
52	Hypocholesterolemic Properties and Prebiotic Effects of Mexican Ganoderma lucidum in C57BL/6 Mice. PLoS ONE, 2016, 11, e0159631.	2.5	54
53	Nutrition and Atherosclerosis. Archives of Medical Research, 2015, 46, 408-426.	3.3	187
54	The activation of peroxisome proliferator-activated receptor Î³ is regulated by KrÃ¼ppel-like transcription factors 6 & 9 under steatotic conditions. Biochemical and Biophysical Research Communications, 2015, 458, 751-756.	2.1	25

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55	A genetic risk score is associated with hepatic triglyceride content and non-alcoholic steatohepatitis in Mexicans with morbid obesity. Experimental and Molecular Pathology, 2015, 98, 178-183.	2.1	49
56	Jatropha curcas Protein Concentrate Stimulates Insulin Signaling, Lipogenesis, Protein Synthesis and the PKCÎ± Pathway in Rat Liver. Plant Foods for Human Nutrition, 2015, 70, 351-356.	3.2	5
57	Plasma branched-chain and aromatic amino acid concentration after ingestion of an urban or rural diet in rural Mexican women. BMC Obesity, 2015, 2, 8.	3.1	19
58	Saturated lipids decrease mitofusin 2 leading to endoplasmic reticulum stress activation and insulin resistance in hypothalamic cells. Brain Research, 2015, 1627, 80-89.	2.2	39
59	The effect of isorhamnetin glycosides extracted from Opuntia ficus-indica in a mouse model of diet induced obesity. Food and Function, 2015, 6, 805-815.	4.6	66
60	Genetic obesity alters recruitment of TANK-binding kinase 1 and AKT into hypothalamic lipid rafts domains. Neurochemistry International, 2015, 80, 23-32.	3.8	21
61	Combined high-fat diet and sustained high sucrose consumption promotes NAFLD in a murine model. Annals of Hepatology, 2015, 14, 540-6.	1.5	14
62	SFRP5 hepatic expression is associated with non-alcoholic liver disease in morbidly obese women. Annals of Hepatology, 2015, 14, 666-74.	1.5	13
63	Omental adipose tissue gene expression, gene variants, branched-chain amino acids, and their relationship with metabolic syndrome and insulin resistance in humans. Genes and Nutrition, 2014, 9, 431.	2.5	38
64	Flavonoids and saponins extracted from black bean (<i>Phaseolus vulgaris</i>L.) seed coats modulate lipid metabolism and biliary cholesterol secretion in C57BL/6 mice. British Journal of Nutrition, 2014, 112, 886-899.	2.3	70
65	Soya protein stimulates bile acid excretion by the liver and intestine through direct and indirect pathways influenced by the presence of dietary cholesterol. British Journal of Nutrition, 2014, 111, 2059-2066.	2.3	11
66	Transcriptional regulation of the sodium-coupled neutral amino acid transporter (SNAT2) by 17Î²-estradiol. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11443-11448.	7.1	20
67	Genistein stimulates fatty acid oxidation in a leptin receptor-independent manner through the JAK2-mediated phosphorylation and activation of AMPK in skeletal muscle. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 132-140.	2.4	35
68	The Effect of Nopal (Opuntia Ficus Indica) on Postprandial Blood Glucose, Incretins, and Antioxidant Activity in Mexican Patients with Type 2 Diabetes after Consumption of Two Different Composition Breakfasts. Journal of the Academy of Nutrition and Dietetics, 2014, 114, 1811-1818.	0.8	98
69	Extract of cactus (Opuntia ficus indica) cladodes scavenges reactive oxygen species in vitro and enhances plasma antioxidant capacity in humans. Journal of Functional Foods, 2014, 10, 13-24.	3.4	48
70	A genetic variant of the CAPN10 gene in Mexican subjects with dyslipidemia is associated with increased HDL-cholesterol concentrations after the consumption of a soy protein and soluble fiber dietary portfolio. Nutricion Hospitalaria, 2014, 30, 671-7.	0.3	5
71	The reninâ€"angiotensin system in adipose tissue and its metabolic consequences during obesity. Journal of Nutritional Biochemistry, 2013, 24, 2003-2015.	4.2	117
72	Effect of a GFOD2 variant on responses in total and LDL cholesterol in Mexican subjects with hypercholesterolemia after soy protein and soluble fiber supplementation. Gene, 2013, 532, 211-215.	2.2	15

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73	Differential modulation of the functionality of white adipose tissue of obese Zucker (fa/fa) rats by the type of protein and the amount and type of fat. Journal of Nutritional Biochemistry, 2013, 24, 1798-1809.	4.2	14
74	PPAR-Î± as a Key Nutritional and Environmental Sensor for Metabolic Adaptation. Advances in Nutrition, 2013, 4, 439-452.	6.4	187
75	Hepatic Amino Acid-Degrading Enzyme Expression Is Downregulated by Natural and Synthetic Ligands of PPARÎ± in Rats. Journal of Nutrition, 2013, 143, 1211-1218.	2.9	5
76	The Dietary Protein/Carbohydrate Ratio Differentially Modifies Lipogenesis and Protein Synthesis in the Mammary Gland, Liver and Adipose Tissue during Gestation and Lactation. PLoS ONE, 2013, 8, e69338.	2.5	15
77	Effects of extracts rich in phytosterols, flavonoids and saponins from black bean (Phaseolus vulgaris) Tj ETQq1 1 0.784314 rgBT /Overlo	0.5	1
78	Soya protein attenuates abnormalities of the reninâ€“angiotensin system in adipose tissue from obese rats. British Journal of Nutrition, 2012, 107, 36-44.	2.3	15
79	The role of nuclear receptors in the kidney in obesity and metabolic syndrome. Genes and Nutrition, 2012, 7, 483-498.	2.5	23
80	Opuntia ficus indica (Nopal) Attenuates Hepatic Steatosis and Oxidative Stress in Obese Zucker (fa/fa) Rats3. Journal of Nutrition, 2012, 142, 1956-1963.	2.9	58
81	A Dietary Pattern Including Nopal, Chia Seed, Soy Protein, and Oat Reduces Serum Triglycerides and Glucose Intolerance in Patients with Metabolic Syndrome. Journal of Nutrition, 2012, 142, 64-69.	2.9	96
82	Diet: Friend or Foe of Enteroendocrine Cells: How It Interacts with Enteroendocrine Cells. Advances in Nutrition, 2012, 3, 8-20.	6.4	80
83	Dietary Type and Amount of Fat Modulate Lipid Metabolism Gene Expression in Liver and in Adipose Tissue in High-fat Diet-fed Rats. Archives of Medical Research, 2011, 42, 540-553.	3.3	20
84	White adipose tissue genome wide-expression profiling and adipocyte metabolic functions after soy protein consumption in rats. Journal of Nutritional Biochemistry, 2011, 22, 118-129.	4.2	33
85	Reproductive axis function and gonadotropin microheterogeneity in a male rat model of diet-induced obesity. General and Comparative Endocrinology, 2010, 166, 356-364.	1.8	26
86	Biotin increases glucokinase expression via soluble guanylate cyclase/protein kinase G, adenosine triphosphate production and autocrine action of insulin in pancreatic rat isletsâ˜†. Journal of Nutritional Biochemistry, 2010, 21, 606-612.	4.2	27
87	Increase in HDL-C concentration by a dietary portfolio with soy protein and soluble fiber is associated with the presence of the ABCA1R230C variant in hyperlipidemic Mexican subjects. Molecular Genetics and Metabolism, 2010, 101, 268-272.	1.1	20
88	Dietary Soy Protein Reduces Cardiac Lipid Accumulation and the Ceramide Concentration in High-Fat Diet-Fed Rats and ob/ob Mice. Journal of Nutrition, 2009, 139, 2237-2243.	2.9	32
89	Reduction of serum lipids by soy protein and soluble fiber is not associated with the ABCG5/G8, apolipoprotein E, and apolipoprotein A1 polymorphisms in a group of hyperlipidemic Mexican subjects. Nutrition Research, 2009, 29, 728-735.	2.9	25
90	Changes in messenger RNA abundance of amino acid transporters in rat mammary gland during pregnancy, lactation, and weaning. Metabolism: Clinical and Experimental, 2009, 58, 594-601.	3.4	33

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91	White Adipose Tissue as Endocrine Organ and Its Role in Obesity. Archives of Medical Research, 2008, 39, 715-728.	3.3	331
92	Soy Protein Ameliorates Metabolic Abnormalities in Liver and Adipose Tissue of Rats Fed a High Fat Diet3. Journal of Nutrition, 2008, 138, 462-468.	2.9	123
93	Pancreatic Insulin Secretion in Rats Fed a Soy Protein High Fat Diet Depends on the Interaction between the Amino Acid Pattern and Isoflavones. Journal of Biological Chemistry, 2007, 282, 20657-20666.	3.4	99
94	Effect of different content of saturated, monosaturated and polyunsaturated dietary fat on hepatic lipogenesis and fatty acid oxidation. FASEB Journal, 2007, 21, A157.	0.5	0
95	Interaction of dietary fat and protein modifies number and affinity of insulin receptor altering insulin sensitivity. FASEB Journal, 2007, 21, A372.	0.5	0
96	Regulation of lipid metabolism by soy protein and its implication in diseases mediated by lipid disorders. Journal of Nutritional Biochemistry, 2006, 17, 365-373.	4.2	200
97	Synthesis of long-chain polyunsaturated fatty acids in lactating mammary gland: role of Î”5 and Î”6 desaturases, SREBP-1, PPARÎ±, and PGC-1. Journal of Lipid Research, 2006, 47, 553-560.	4.2	64
98	Soy protein reduces insulin secretion through regulation of PPAR[gamma], PPAR[alpha], and GLUT 2 expression in pancreatic islets of obese rats. FASEB Journal, 2006, 20, A596.	0.5	3
99	Soy protein intake prevents adipocyte hypertrophy in rats fed a high fat diet. FASEB Journal, 2006, 20, A595.	0.5	1
100	Soy protein reduces hepatic lipotoxicity in hyperinsulinemic obese Zucker fa/fa rats. Journal of Lipid Research, 2005, 46, 1823-1832.	4.2	135
101	Mitochondrial branched chain aminotransferase gene expression in AS-30D hepatoma rat cells and during liver regeneration after partial hepatectomy in rat. Life Sciences, 2005, 78, 334-339.	4.3	5
102	Soy protein diet ameliorates renal nitrotyrosine formation and chronic nephropathy induced by puromycin aminonucleoside. Life Sciences, 2004, 74, 987-999.	4.3	30
103	Soy Protein Affects Serum Insulin and Hepatic SREBP-1 mRNA and Reduces Fatty Liver in Rats. Journal of Nutrition, 2004, 134, 522-529.	2.9	212
104	Production of recombinant rat hepatic histidase. Revista De Investigacion Clinica, 2004, 56, 43-50.	0.4	0
105	Plasma total homocysteine in Mexican rural and urban women fed typical model diets. Nutrition, 2003, 19, 826-831.	2.4	8
106	A Soy Protein Diet Alters Hepatic Lipid Metabolism Gene Expression and Reduces Serum Lipids and Renal Fibrogenic Cytokines in Rats with Chronic Nephrotic Syndrome. Journal of Nutrition, 2002, 132, 2562-2569.	2.9	110
107	Induction of Expression of Branched-Chain Aminotransferase and Alpha-Keto Acid Dehydrogenase in Rat Tissues During Lactation. Advances in Experimental Medicine and Biology, 2001, 501, 93-99.	1.6	6
108	Ontogeny and subcellular localization of rat liver mitochondrial branched chain amino-acid aminotransferase. FEBS Journal, 2001, 268, 6132-6139.	0.2	7

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109	Metabolizable energy from a predominantly vegetable diet consumed by Mexican rural lactating women. Nutrition Research, 2000, 20, 215-224.	2.9	2
110	Hepatic histidase and muscle branched chain aminotransferase gene expression in experimental nephrosis. Life Sciences, 2000, 67, 2775-2784.	4.3	3
111	Histidine-Imbalanced Diets Stimulate Hepatic Histidase Gene Expression in Rats. Journal of Nutrition, 1999, 129, 1979-1983.	2.9	25
112	Amino acid profiles in diet, plasma and human milk in Mexican rural lactating women. Nutrition Research, 1999, 19, 1133-1143.	2.9	9
113	Regulation of histidase gene expression by glucagon, hydrocortisone and protein-free/high carbohydrate diet in the rat. Life Sciences, 1998, 63, 1663-1672.	4.3	12
114	Regulation of Branched-Chain Amino Acid Metabolism in the Lactating Rat. Journal of Nutrition, 1998, 128, 1165-1171.	2.9	54
115	Histidase Expression Is Regulated by Dietary Protein at the Pretranslational Level in Rat Liver. Journal of Nutrition, 1998, 128, 818-824.	2.9	30
116	Dietary Protein Level Regulates Expression of the Mitochondrial Branched-Chain Aminotransferase in Rats. Journal of Nutrition, 1998, 128, 1368-1375.	2.9	39
117	Hepatic Histidase Gene Expression Responds to Protein Rehabilitation in Undernourished Growing Rats. Journal of Nutrition, 1998, 128, 1631-1635.	2.9	13
118	Leucine Affects the Metabolism of Valine by Isolated Perfused Rat Hearts: Relation to Branched-Chain Amino Acid Antagonism. Journal of Nutrition, 1995, 125, 1884-1893.	2.9	12
119	Competition for transport of amino acids into rat heart: Effect of competitors on protein synthesis and degradation. Metabolism: Clinical and Experimental, 1992, 41, 925-933.	3.4	9
120	Neutral amino acid transport into rat skeletal muscle: Competition, adaptive regulation, and effects of insulin. Metabolism: Clinical and Experimental, 1991, 40, 410-419.	3.4	23
121	Some Characteristics of Threonine Transport Across the Blood-Brain Barrier of the Rat. Journal of Neurochemistry, 1988, 51, 1285-1293.	3.9	31
122	Decreased cellular immune response in wasted but not in stunted children. Nutrition Research, 1986, 6, 1161-1170.	2.9	12