

# Richard L Veech

## List of Publications by Year in descending order

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56  
papers

4,708  
citations

126708

33  
h-index

149479

56  
g-index

57  
all docs

57  
docs citations

57  
times ranked

4539  
citing authors

#	ARTICLE	IF	CITATIONS
1	The therapeutic implications of ketone bodies: the effects of ketone bodies in pathological conditions: ketosis, ketogenic diet, redox states, insulin resistance, and mitochondrial metabolism. Prostaglandins Leukotrienes and Essential Fatty Acids, 2004, 70, 309-319.	1.0	578
2	Nutritional Ketosis Alters Fuel Preference and Thereby Endurance Performance in Athletes. Cell Metabolism, 2016, 24, 256-268.	7.2	377
3	Ketone Bodies, Potential Therapeutic Uses. IUBMB Life, 2001, 51, 241-247.	1.5	374
4	A ketone ester diet exhibits anxiolytic and cognition-sparing properties, and lessens amyloid and tau pathologies in a mouse model of Alzheimer's disease. Neurobiology of Aging, 2013, 34, 1530-1539.	1.5	277
5	Kinetics, safety and tolerability of (R)-3-hydroxybutyl (R)-3-hydroxybutyrate in healthy adult subjects. Regulatory Toxicology and Pharmacology, 2012, 63, 401-408.	1.3	243
6	Stabilization of Cytochrome P450j Messenger Ribonucleic Acid in the Diabetic Rat. Molecular Endocrinology, 1987, 1, 542-547.	3.7	200
7	The Concentration of Malonyl-Coenzyme A and the Control of Fatty Acid Synthesis in Vivo. Journal of Biological Chemistry, 1972, 247, 7325-7331.	1.6	169
8	Activated FOXO-mediated insulin resistance is blocked by reduction of TOR activity. Cell Metabolism, 2006, 4, 133-142.	7.2	161
9	A new way to produce hyperketonemia: Use of ketone ester in a case of Alzheimer's disease. Alzheimer's and Dementia, 2015, 11, 99-103.	0.4	158
10	Ketoacids? Good medicine?. Transactions of the American Clinical and Climatological Association, 2003, 114, 149-61; discussion 162-3.	0.9	156
11	A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. Cell Metabolism, 2019, 30, 174-189.e5.	7.2	141
12	Novel ketone diet enhances physical and cognitive performance. FASEB Journal, 2016, 30, 4021-4032.	0.2	132
13	Ketone bodies mimic the life span extending properties of caloric restriction. IUBMB Life, 2017, 69, 305-314.	1.5	131
14	Increased uncoupling proteins and decreased efficiency in palmitate-perfused hyperthyroid rat heart. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H977-H983.	1.5	121
15	Mitochondrial biogenesis and increased uncoupling protein 1 in brown adipose tissue of mice fed a ketone ester diet. FASEB Journal, 2012, 26, 2351-2362.	0.2	101
16	The metabolism of lactate. NMR in Biomedicine, 1991, 4, 53-58.	1.6	85
17	Diet modulates brain network stability, a biomarker for brain aging, in young adults. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6170-6177.	3.3	85
18	Effects of a dietary ketone ester on hippocampal glycolytic and tricarboxylic acid cycle intermediates and amino acids in a 3xTg-AD mouse model of Alzheimer's disease. Journal of Neurochemistry, 2017, 141, 195-207.	2.1	83

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19	A Ketone Ester Diet Increases Brain Malonyl-CoA and Uncoupling Proteins 4 and 5 while Decreasing Food Intake in the Normal Wistar Rat. <i>Journal of Biological Chemistry</i> , 2010, 285, 25950-25956.	1.6	78
20	Oral 28-day and developmental toxicity studies of (R)-3-hydroxybutyl (R)-3-hydroxybutyrate. <i>Regulatory Toxicology and Pharmacology</i> , 2012, 63, 196-208.	1.3	76
21	Substrate Signaling by Insulin. <i>American Journal of Cardiology</i> , 1997, 80, 50A-64A.	0.7	74
22	Lactate-stimulated ethanol oxidation in isolated hepatocytes. <i>Biochemical Journal</i> , 1978, 172, 29-36.	1.7	62
23	A ketogenic diet increases brown adipose tissue mitochondrial proteins and UCP1 levels in mice. <i>IUBMB Life</i> , 2013, 65, 58-66.	1.5	62
24	Metabolite Regulation of Nuclear Localization of Carbohydrate-response Element-binding Protein (ChREBP). <i>Journal of Biological Chemistry</i> , 2016, 291, 10515-10527.	1.6	58
25	Carbohydrate-response Element-binding Protein Deletion Alters Substrate Utilization Producing an Energy-deficient Liver. <i>Journal of Biological Chemistry</i> , 2008, 283, 1670-1678.	1.6	50
26	Ketone ester effects on metabolism and transcription. <i>Journal of Lipid Research</i> , 2014, 55, 2004-2006.	2.0	49
27	Brown and Brite: The Fat Soldiers in the Anti-obesity Fight. <i>Frontiers in Physiology</i> , 2019, 10, 38.	1.3	49
28	Relationship of free cytoplasmic pyrophosphate to liver glucose content and total pyrophosphate to cytoplasmic phosphorylation potential. <i>FEBS Letters</i> , 1980, 117, K65-K72.	1.3	48
29	Neurocardiac toxicity of racemic D,L-lactate fluids. <i>Integrative Psychological and Behavioral Science</i> , 1994, 29, 383-394.	0.3	45
30	The Energetics of Ion Distribution: The Origin of the Resting Electric Potential of Cells. <i>IUBMB Life</i> , 2002, 54, 241-252.	1.5	44
31	The "great-controlling nucleotide coenzymes. <i>IUBMB Life</i> , 2019, 71, 565-579.	1.5	40
32	The Effect of pH and Free $Mg^{2+}$ on ATP Linked Enzymes and the Calculation of Gibbs Free Energy of ATP Hydrolysis. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16137-16146.	1.2	36
33	The determination of the redox states and phosphorylation potential in living tissues and their relationship to metabolic control of disease phenotypes. <i>Biochemistry and Molecular Biology Education</i> , 2006, 34, 168-179.	0.5	34
34	Alterations in Brain Glucose Utilization Accompanying Elevations in Blood Ethanol and Acetate Concentrations in the Rat. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 375-381.	1.4	34
35	A humble hexose monophosphate pathway metabolite regulates short- and long-term control of lipogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5578-5580.	3.3	33
36	The resting membrane potential of cells are measures of electrical work, not of ionic currents. <i>Integrative Psychological and Behavioral Science</i> , 1995, 30, 283-307.	0.3	28

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37	The mitochondrial permeability transition pore provides a key to the diagnosis and treatment of traumatic brain injury. <i>IUBMB Life</i> , 2012, 64, 203-207.	1.5	24
38	Redox and Phosphorylation States and Metabolite Concentrations in Frozen Clamped Livers of Rats Fed Diets Containing 1,3-Butanediol and DL-Carnitine. <i>Journal of Nutrition</i> , 1972, 102, 45-51.	1.3	22
39	An Ester of $\beta$ -Hydroxybutyrate Regulates Cholesterol Biosynthesis in Rats and a Cholesterol Biomarker in Humans. <i>Lipids</i> , 2015, 50, 1185-1193.	0.7	22
40	The Effect of Short Chain Fatty Acid Administration on Hepatic Glucose, Phosphate, Magnesium and Calcium Metabolism. <i>Advances in Experimental Medicine and Biology</i> , 1986, 194, 617-646.	0.8	21
41	Metabolic Hyperpolarization of Liver by Ethanol: The Importance of $Mg^{2+}$ and $H^+$ in Determining Impermeant Intracellular Anionic Charge and Energy of Metabolic Reactions. <i>Alcoholism: Clinical and Experimental Research</i> , 1994, 18, 1040-1056.	1.4	20
42	Ketone Ester $\beta$ -Hydroxybutyrate (R)-1,3 Butanediol Prevents Decline in Cardiac Function in Type 2 Diabetic Mice. <i>Journal of the American Heart Association</i> , 2021, 10, e020729.	1.6	19
43	Ketone esters increase brown fat in mice and overcome insulin resistance in other tissues in the rat. <i>Annals of the New York Academy of Sciences</i> , 2013, 1302, 42-48.	1.8	15
44	Radiometric measurement of phosphoribosylpyrophosphate and ribose 5-phosphate by enzymatic procedures. <i>Analytical Biochemistry</i> , 1990, 187, 179-186.	1.1	13
45	Microwave irradiation decreases $\langle \text{ATP} \rangle$ , increases free $[Mg^{2+}]$ , and alters $\langle i \rangle$ intracellular reactions in rat brain. <i>Journal of Neurochemistry</i> , 2012, 123, 668-675.	2.1	13
46	Comparison of the Effects of a 50% Exchange-Transfusion with Albumin, Hetastarch, and Modified Hemoglobin Solutions. <i>Shock</i> , 2002, 17, 61-69.	1.0	12
47	Enzymatic determination of total $CO_2$ in freeze-clamped animal tissues and plasma. <i>Analytical Biochemistry</i> , 1991, 195, 232-237.	1.1	9
48	Relationship between inorganic ion distribution, resting membrane potential, and the $\langle i \rangle G$ of ATP hydrolysis: a new paradigm. <i>FASEB Journal</i> , 2019, 33, 13126-13130.	0.2	9
49	Effect of chronic ethanol administration on cholesterol and bile acid synthesis in vivo. <i>Lipids</i> , 1978, 13, 134-136.	0.7	8
50	Severe adverse events associated with hemoglobin based oxygen carriers: Role of resuscitative fluids and liquid preserved RBC. <i>Transfusion and Apheresis Science</i> , 2008, 39, 205-211.	0.5	7
51	Effects of the Resuscitation Fluid and the Hemoglobin Based Oxygen Carrier (HBOC) Excipient on the Toxicity of the HBOC: Ringer's D,L-Lactate, Ringer's L-Lactate, and Ringer's Ketone Solutions. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2006, 34, 601-606.	0.9	6
52	The unrecognized effects of the volume and composition of the resuscitation fluid used during the administration of blood products. <i>Transfusion and Apheresis Science</i> , 2012, 46, 121-123.	0.5	6
53	Metabolic Complexities in Cardiac Imaging. <i>Circulation</i> , 1995, 91, 2299-2301.	1.6	3
54	Altered Expression of HLA Antigens and CD16 Fc Receptors on Leukocytes of Alcoholic Subjects and Uremic Patients. <i>Alcoholism: Clinical and Experimental Research</i> , 1991, 15, 790-795.	1.4	2

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55	Interleukin 6 alleviates hepatic steatosis and ischemia/reperfusion injury in mice with fatty liver disease. <i>Hepatology</i> , 2004, 40, 933-941.	3.6	2
56	Effect of acetate on hepatic inorganic ion content. <i>Biochemical Society Transactions</i> , 1988, 16, 577-578.	1.6	0