

Eric J Hajduch

List of Publications by Year in descending order

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71
papers

5,162
citations

76196

40
h-index

95083

68
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79
all docs

79
docs citations

79
times ranked

6641
citing authors

#	ARTICLE	IF	CITATIONS
1	Constitutive activation of protein kinase B alpha by membrane targeting promotes glucose and system A amino acid transport, protein synthesis, and inactivation of glycogen synthase kinase 3 in L6 muscle cells. <i>Diabetes</i> , 1998, 47, 1006-1013.	0.3	309
2	Ceramide Disables 3-Phosphoinositide Binding to the Pleckstrin Homology Domain of Protein Kinase B (PKB)/Akt by a PKC ζ -Dependent Mechanism. <i>Molecular and Cellular Biology</i> , 2003, 23, 7794-7808.	1.1	305
3	Anti-lipolytic Action of AMP-activated Protein Kinase in Rodent Adipocytes. <i>Journal of Biological Chemistry</i> , 2005, 280, 25250-25257.	1.6	286
4	New insights into ER stress-induced insulin resistance. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 381-390.	3.1	247
5	Protein kinase B (PKB/Akt) - a key regulator of glucose transport?. <i>FEBS Letters</i> , 2001, 492, 199-203.	1.3	238
6	Intracellular ceramide synthesis and protein kinase C ζ activation play an essential role in palmitate-induced insulin resistance in rat L6 skeletal muscle cells. <i>Biochemical Journal</i> , 2004, 382, 619-629.	1.7	230
7	Ceramide impairs the insulin-dependent membrane recruitment of Protein Kinase B leading to a loss in downstream signalling in L6 skeletal muscle cells. <i>Diabetologia</i> , 2001, 44, 173-183.	2.9	202
8	I-Leucine availability regulates phosphatidylinositol 3-kinase, p70 S6 kinase and glycogen synthase kinase-3 activity in L6 muscle cells: evidence for the involvement of the mammalian target of rapamycin (mTOR) pathway in the I-leucine-induced up-regulation of System A amino acid transport. <i>Biochemical Journal</i> , 2000, 350, 361-368.	1.7	179
9	Cholesterol-Induced Caveolin Targeting to Lipid Droplets in Adipocytes: A Role for Caveolar Endocytosis. <i>Traffic</i> , 2006, 7, 549-561.	1.3	158
10	Activation of glucose transport by AMP-activated protein kinase via stimulation of nitric oxide synthase. <i>Diabetes</i> , 2000, 49, 1978-1985.	0.3	157
11	Regulation of Glucose Transport and Glycogen Synthesis in L6 Muscle Cells during Oxidative Stress. <i>Journal of Biological Chemistry</i> , 1999, 274, 36293-36299.	1.6	153
12	IL-1 receptor antagonist in metabolic diseases: Dr Jekyll or Mr Hyde?. <i>FEBS Letters</i> , 2006, 580, 6289-6294.	1.3	130
13	Intracellular Sensing of Amino Acids in <i>Xenopus laevis</i> Oocytes Stimulates p70 S6 Kinase in a Target of Rapamycin-dependent Manner. <i>Journal of Biological Chemistry</i> , 2002, 277, 9952-9957.	1.6	112
14	Serotonin (5-Hydroxytryptamine), a Novel Regulator of Glucose Transport in Rat Skeletal Muscle. <i>Journal of Biological Chemistry</i> , 1999, 274, 13563-13568.	1.6	108
15	Ceramide down-regulates System A amino acid transport and protein synthesis in rat skeletal muscle cells. <i>FASEB Journal</i> , 2005, 19, 1-24.	0.2	106
16	Lipid environment induces ER stress, TXNIP expression and inflammation in immune cells of individuals with type 2 diabetes. <i>Diabetologia</i> , 2018, 61, 399-412.	2.9	102
17	Targeting of PKC ζ and PKB to caveolin-enriched microdomains represents a crucial step underpinning the disruption in PKB-directed signalling by ceramide. <i>Biochemical Journal</i> , 2008, 410, 369-379.	1.7	99
18	Lipid droplet analysis in caveolin-deficient adipocytes: alterations in surface phospholipid composition and maturation defects. <i>Journal of Lipid Research</i> , 2010, 51, 945-956.	2.0	93

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19	Plasma Membrane Subdomain Compartmentalization Contributes to Distinct Mechanisms of Ceramide Action on Insulin Signaling. <i>Diabetes</i> , 2010, 59, 600-610.	0.3	91
20	Protein kinase C isoforms: Mediators of reactive lipid metabolites in the development of insulin resistance. <i>FEBS Letters</i> , 2011, 585, 269-274.	1.3	88
21	Subcellular localization and adaptive up-regulation of the System A (SAT2) amino acid transporter in skeletal-muscle cells and adipocytes. <i>Biochemical Journal</i> , 2001, 355, 563-568.	1.7	78
22	Sphingolipid Metabolism: New Insight into Ceramide-Induced Lipotoxicity in Muscle Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 479.	1.8	72
23	Fish Oil in a High Lard Diet Prevents Obesity, Hyperlipemia, and Adipocyte Insulin Resistance in Rats. <i>Annals of the New York Academy of Sciences</i> , 1993, 683, 98-101.	1.8	70
24	Endoplasmic reticulum stress does not mediate palmitate-induced insulin resistance in mouse and human muscle cells. <i>Diabetologia</i> , 2012, 55, 204-214.	2.9	69
25	The lipotrophic caveolin-1 deficient mouse model reveals autophagy in mature adipocytes. <i>Autophagy</i> , 2010, 6, 754-763.	4.3	66
26	Defect of insulin signal in peripheral tissues: Important role of ceramide. <i>World Journal of Diabetes</i> , 2014, 5, 244.	1.3	66
27	Biguanides and thiazolidinediones inhibit stimulated lipolysis in human adipocytes through activation of AMP-activated protein kinase. <i>Diabetologia</i> , 2010, 53, 768-778.	2.9	60
28	Fructose uptake in rat adipocytes: GLUT5 expression and the effects of streptozotocin-induced diabetes. <i>Diabetologia</i> , 1998, 41, 821-828.	2.9	58
29	Use of lithium and SB-415286 to explore the role of glycogen synthase kinase-3 in the regulation of glucose transport and glycogen synthase. <i>FEBS Journal</i> , 2003, 270, 3829-3838.	0.2	56
30	Constitutive Activation of GSK3 Down-regulates Glycogen Synthase Abundance and Glycogen Deposition in Rat Skeletal Muscle Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 9509-9518.	1.6	53
31	Sustained Action of Ceramide on the Insulin Signaling Pathway in Muscle Cells: IMPLICATION OF THE DOUBLE-STRANDED RNA-ACTIVATED PROTEIN KINASE. <i>Journal of Biological Chemistry</i> , 2016, 291, 3019-3029.	1.6	52
32	Inhibition of central de novo ceramide synthesis restores insulin signaling in hypothalamus and enhances β -cell function of obese Zucker rats. <i>Molecular Metabolism</i> , 2018, 8, 23-36.	3.0	51
33	A role for the actin cytoskeleton in the hormonal and growth-factor-mediated activation of protein kinase B. <i>Biochemical Journal</i> , 2000, 352, 617-622.	1.7	49
34	Regulation of glucose transporters in cultured rat adipocytes: synergistic effect of insulin and dexamethasone on GLUT4 gene expression through promoter activation.. <i>Endocrinology</i> , 1995, 136, 4782-4789.	1.4	46
35	Targeting sphingolipid metabolism in the treatment of obesity/type 2 diabetes. <i>Expert Opinion on Therapeutic Targets</i> , 2015, 19, 1037-1050.	1.5	46
36	l-Leucine availability regulates phosphatidylinositol 3-kinase, p70 S6 kinase and glycogen synthase kinase-3 activity in L6 muscle cells: evidence for the involvement of the mammalian target of rapamycin (mTOR) pathway in the l-leucine-induced up-regulation of System A amino acid transport. <i>Biochemical Journal</i> , 2000, 350, 361.	1.7	44

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37	Roles of Ceramides in Non-Alcoholic Fatty Liver Disease. <i>Journal of Clinical Medicine</i> , 2021, 10, 792.	1.0	44
38	Characterising the Inhibitory Actions of Ceramide upon Insulin Signaling in Different Skeletal Muscle Cell Models: A Mechanistic Insight. <i>PLoS ONE</i> , 2014, 9, e101865.	1.1	44
39	Insulin and Angiotensin II Induce the Translocation of Scavenger Receptor Class B, Type I from Intracellular Sites to the Plasma Membrane of Adipocytes. <i>Journal of Biological Chemistry</i> , 2005, 280, 33536-33540.	1.6	43
40	Regulated association of caveolins to lipid droplets during differentiation of 3T3-L1 adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 331-335.	1.0	43
41	Intracellular signalling mechanisms regulating glucose transport in insulin-sensitive tissues. <i>Molecular Membrane Biology</i> , 2001, 18, 195-204.	2.0	42
42	Fructose transport and metabolism in adipose tissue of Zucker rats: Diminished GLUT5 activity during obesity and insulin resistance. <i>Molecular and Cellular Biochemistry</i> , 2004, 261, 23-33.	1.4	41
43	Filling up adipocytes with lipids. Lessons from caveolin-1 deficiency. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 514-518.	1.2	41
44	Sphingosine-1-Phosphate Metabolism in the Regulation of Obesity/Type 2 Diabetes. <i>Cells</i> , 2020, 9, 1682.	1.8	39
45	Sphingolipid Metabolism and Signaling in Skeletal Muscle: From Physiology to Physiopathology. <i>Frontiers in Endocrinology</i> , 2020, 11, 491.	1.5	37
46	Biochemical and functional characterization of the GLUT5 fructose transporter in rat skeletal muscle. <i>Biochemical Journal</i> , 1998, 336, 361-366.	1.7	36
47	Short Term Palmitate Supply Impairs Intestinal Insulin Signaling via Ceramide Production. <i>Journal of Biological Chemistry</i> , 2016, 291, 16328-16338.	1.6	36
48	Inositol Phospholipid 3-Kinase is Activated by Cellular Stress but is not Required for the Stress-Induced Activation of Glucose Transport in L6 Rat Skeletal Muscle Cells. <i>FEBS Journal</i> , 1997, 247, 306-313.	0.2	30
49	Biochemical Localisation of the 5-HT _{2A} (serotonin) Receptor in Rat Skeletal Muscle. <i>Biochemical and Biophysical Research Communications</i> , 1999, 257, 369-372.	1.0	29
50	Lactate transport in rat adipocytes: identification of monocarboxylate transporter 1 (MCT1) and its modulation during streptozotocin-induced diabetes. <i>FEBS Letters</i> , 2000, 479, 89-92.	1.3	28
51	Lipid sensing and lipid sensors. <i>Cellular and Molecular Life Sciences</i> , 2007, 64, 2452-2458.	2.4	28
52	Ceramide Transporter CERT Is Involved in Muscle Insulin Signaling Defects Under Lipotoxic Conditions. <i>Diabetes</i> , 2018, 67, 1258-1271.	0.3	27
53	Enhanced Insulin Sensitivity Associated with Provision of Mono and Polyunsaturated Fatty Acids in Skeletal Muscle Cells Involves Counter Modulation of PP2A. <i>PLoS ONE</i> , 2014, 9, e92255.	1.1	24
54	Insulin-Stimulated Glucose Uptake Does Not Require p38 Mitogen-Activated Protein Kinase in Adipose Tissue or Skeletal Muscle. <i>Diabetes</i> , 2005, 54, 3161-3168.	0.3	23

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55	Dihydroceramides in Triglyceride-Enriched VLDL Are Associated with Nonalcoholic Fatty Liver Disease Severity in Type 2 Diabetes. <i>Cell Reports Medicine</i> , 2020, 1, 100154.	3.3	23
56	Proteolytic cleavage of cellubrevin and vesicle-associated membrane protein (VAMP) by tetanus toxin does not impair insulin-stimulated glucose transport or GLUT4 translocation in rat adipocytes. <i>Biochemical Journal</i> , 1997, 321, 233-238.	1.7	22
57	DnaJA4 is a SREBP-regulated chaperone involved in the cholesterol biosynthesis pathway. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006, 1761, 1107-1113.	1.2	22
58	Effects of a fish oil-lard diet on rat plasma lipoproteins, liver FAS, and lipolytic enzymes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1994, 267, E975-E982.	1.8	21
59	Expression of glucose transporters (GLUT 1 and GLUT 4) in primary cultured rat adipocytes: Differential evolution with time and chronic insulin effect. <i>Journal of Cellular Biochemistry</i> , 1992, 49, 251-258.	1.2	19
60	A role for the actin cytoskeleton in the hormonal and growth-factor-mediated activation of protein kinase B. <i>Biochemical Journal</i> , 2000, 352, 617.	1.7	18
61	The Reciprocal Relationship between LDL Metabolism and Type 2 Diabetes Mellitus. <i>Metabolites</i> , 2021, 11, 807.	1.3	17
62	Insulin regulates the expression of the GLUT5 transporter in L6 skeletal muscle cells. <i>FEBS Letters</i> , 2003, 549, 77-82.	1.3	16
63	Fatty Genotype-Induced Increase in GLUT4 Promoter Activity in Transfected Adipocytes: Delineation of Two fa-Responsive Regions and Glucose Effect. <i>Biochemical and Biophysical Research Communications</i> , 1995, 209, 1053-1061.	1.0	13
64	Expression and modulation of TUB by insulin and thyroid hormone in primary rat and murine 3T3-L1 adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 1328-1333.	1.0	12
65	Beneficial Effects of a Fish Oil Enriched High Lard Diet on Obesity and Hyperlipemia in Zucker Rats. <i>Annals of the New York Academy of Sciences</i> , 1993, 683, 349-350.	1.8	8
66	Analyses of the co-localization of cellubrevin and the GLUT4 glucose transporter in rat and human insulin-responsive tissues. <i>FEBS Letters</i> , 1996, 395, 211-216.	1.3	5
67	Type 2 diabetes: ceramides as a therapeutic target?. <i>Clinical Lipidology</i> , 2013, 8, 607-609.	0.4	1
68	Serum ceramides could predict durable diabetes remission following gastric bypass surgery. <i>Med</i> , 2022, 3, 440-441.	2.2	1
69	Adipocyte caveolin-1 lipid droplet pool is critical for size enlargement by regulating the organelle surface composition. <i>Chemistry and Physics of Lipids</i> , 2009, 160, S7.	1.5	0
70	Ceramide is a negative regulator of insulin action, nutrient uptake and protein synthesis in cultured rat skeletal muscle cells. , 0, , 373-386.		0
71	Editorial: The Role of Sphingolipid Metabolism in the Development of Type 2 Diabetes and Obesity. <i>Frontiers in Endocrinology</i> , 2021, 12, 835751.	1.5	0