Edward B Arias

List of Publications by Year
in descending order

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46 papers	1,949 citations	361296 20 h-index	243529 44 g-index
46 all docs	46 docs citations	46 times ranked	2299 citing authors

#	Article	IF	Citations
1	A Low Dose of Dietary Resveratrol Partially Mimics Caloric Restriction and Retards Aging Parameters in Mice. PLoS ONE, 2008, 3, e2264.	1.1	504
2	Increased Phosphorylation of Akt Substrate of 160 kDa (AS160) in Rat Skeletal Muscle in Response to Insulin or Contractile Activity. Diabetes, 2005, 54, 41-50.	0.3	230
3	Complementary Deoxyribonucleic Acid Cloning and Molecular Characterization of an Estrogen-Dependent Human Oviductal Glycoprotein1. Biology of Reproduction, 1994, 51, 685-694.	1.2	137
4	Prolonged Incubation in PUGNAc Results in Increased Protein O-Linked Glycosylation and Insulin Resistance in Rat Skeletal Muscle. Diabetes, 2004, 53, 921-930.	0.3	124
5	Prior exercise increases phosphorylation of Akt substrate of 160 kDa (AS160) in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1191-E1200.	1.8	103
6	Postexercise Improvement in Insulin-Stimulated Glucose Uptake Occurs Concomitant With Greater AS160 Phosphorylation in Muscle From Normal and Insulin-Resistant Rats. Diabetes, 2014, 63, 2297-2308.	0.3	78
7	Increased submaximal insulin-stimulated glucose uptake in mouse skeletal muscle after treadmill exercise. Journal of Applied Physiology, 2006, 101, 1368-1376.	1.2	74
8	Postcontraction insulin sensitivity: relationship with contraction protocol, glycogen concentration, and 5â€² AMP-activated protein kinase phosphorylation. Journal of Applied Physiology, 2004, 96, 575-583.	1.2	59
9	Mechanisms for increased insulin-stimulated Akt phosphorylation and glucose uptake in fast- and slow-twitch skeletal muscles of calorie-restricted rats. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E966-E978.	1.8	49
10	Sustained postexercise increases in AS160 Thr⁶⁴²and Ser⁵⁸⁸phosphorylation in skeletal muscle without sustained increases in kinase phosphorylation. Journal of Applied Physiology, 2012, 113, 1852-1861.	1.2	44
11	Calorie Restriction Enhances Insulin-Stimulated Glucose Uptake and Akt Phosphorylation in Both Fast-Twitch and Slow-Twitch Skeletal Muscle of 24-Month-Old Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 1279-1285.	1.7	40
12	Regional Distribution and Hormonal Control of Estrogen-Dependent Oviduct-Specific Glycoprotein Messenger Ribonucleic Acid in the Baboon (Papio anubis)1. Biology of Reproduction, 1996, 55, 421-426.	1.2	35
13	Calorie restriction increases muscle insulin action but not IRS-1-, IRS-2-, or phosphotyrosine-PI 3-kinase. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E270-E276.	1.8	34
14	High-Fat Diet-Induced Insulin Resistance in Single Skeletal Muscle Fibers is Fiber Type Selective. Scientific Reports, 2017, 7, 13642.	1.6	27
15	Insulin resistance for glucose uptake and Akt2 phosphorylation in the soleus, but not epitrochlearis, muscles of old vs. adult rats. Journal of Applied Physiology, 2010, 108, 1631-1640.	1.2	25
16	Preventing the calorie restriction-induced increase in insulin-stimulated Akt2 phosphorylation eliminates calorie restriction's effect on glucose uptake in skeletal muscle. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1735-1740.	1.8	24
17	Novel single skeletal muscle fiber analysis reveals a fiber type-selective effect of acute exercise on glucose uptake. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E818-E824.	1.8	24
18	A persistent increase in insulin-stimulated glucose uptake by both fast-twitch and slow-twitch skeletal muscles after a single exercise session by old rats. Age, 2013, 35, 573-582.	3.0	23

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19	Mechanisms for independent and combined effects of calorie restriction and acute exercise on insulin-stimulated glucose uptake by skeletal muscle of old rats. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E603-E612.	1.8	21
20	Fiber type effects on contraction-stimulated glucose uptake and GLUT4 abundance in single fibers from rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E223-E230.	1.8	21
21	Fiber Type-Specific Differences in Glucose Uptake by Single Fibers From Skeletal Muscles of 9- and 25-Month-Old Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2012, 67, 1286-1294.	1.7	20
22	Whole body glucoregulation and tissue-specific glucose uptake in a novel Akt substrate of 160 kDa knockout rat model. PLoS ONE, 2019, 14, e0216236.	1.1	20
23	Skeletal muscle fiber type-selective effects of acute exercise on insulin-stimulated glucose uptake in insulin-resistant, high-fat-fed rats. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E695-E706.	1.8	20
24	Insulin Signaling and Glucose Uptake in the Soleus Muscle of 30-Month-Old Rats After Calorie Restriction With or Without Acute Exercise. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2016, 71, 323-332.	1.7	19
25	Postexercise improvement in glucose uptake occurs concomitant with greater Î³3-AMPK activation and AS160 phosphorylation in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E859-E871.	1.8	18
26	Protein Phosphatase 1-Î± Regulates AS160 Ser588 and Thr642 Dephosphorylation in Skeletal Muscle. Diabetes, 2016, 65, 2606-2617.	0.3	17
27	Calorie restriction leads to greater Akt2 activity and glucose uptake by insulin-stimulated skeletal muscle from old rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R449-R458.	0.9	15
28	Prior treatment with the AMPK activator AICAR induces subsequently enhanced glucose uptake in isolated skeletal muscles from 24-month-old rats. Applied Physiology, Nutrition and Metabolism, 2018, 43, 795-805.	0.9	13
29	Mechanism of insulin resistance in a rat model of kidney disease and the risk of developing type 2 diabetes. PLoS ONE, 2017, 12, e0176650.	1.1	13
30	Fiber type-selective exercise effects on AS160 phosphorylation. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E837-E851.	1.8	12
31	Greater insulin-mediated Akt phosphorylation concomitant with heterogeneous effects on phosphorylation of Akt substrates in soleus of calorie-restricted rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2012, 303, R1261-R1267.	0.9	11
32	Greater filamin C, GSK3Î±, and GSK3Î² serine phosphorylation in insulin-stimulated isolated skeletal muscles of calorie restricted 24 month-old rats. Mechanisms of Ageing and Development, 2013, 134, 60-63.	2.2	11
33	Effects of Calorie Restriction and Fiber Type on Glucose Uptake and Abundance of Electron Transport Chain and Oxidative Phosphorylation Proteins in Single Fibers from Old Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1638-1646.	1.7	11
34	In vivo glucoregulation and tissue-specific glucose uptake in female Akt substrate 160 kDa knockout rats. PLoS ONE, 2020, 15, e0223340.	1.1	10
35	Exercise-Induced Improvement in Insulin-Stimulated Glucose Uptake by Rat Skeletal Muscle Is Absent in Male AS160-Knockout Rats, Partially Restored by Muscle Expression of Phosphomutated AS160, and Fully Restored by Muscle Expression of Wild-Type AS160. Diabetes, 2022, 71, 219-232.	0.3	10
36	In vitro simulation of calorie restriction-induced decline in glucose and insulin leads to increased insulin-stimulated glucose transport in rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1782-E1788.	1.8	8

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37	Fiber type-specific effects of acute exercise on insulin-stimulated AS160 phosphorylation in insulin-resistant rat skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E984-E998.	1.8	8
38	Effects of a brief high-fat diet and acute exercise on the mTORC1 and IKK/NF-Î²B pathways in rat skeletal muscle. Applied Physiology, Nutrition and Metabolism, 2015, 40, 251-262.	0.9	7
39	Measuring Both Glucose Uptake and Myosin Heavy Chain Isoform Expression in Single Rat Skeletal Muscle Fibers. Methods in Molecular Biology, 2019, 1889, 283-300.	0.4	7
40	Effects of Acute Exercise Combined With Calorie Restriction Initiated Late-in-Life on Insulin Signaling, Lipids, and Glucose Uptake in Skeletal Muscle From Old Rats. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 207-217.	1.7	5
41	Exercise effects on Î³3-AMPK activity, phosphorylation of Akt2 and AS160, and insulin-stimulated glucose uptake in insulin-resistant rat skeletal muscle. Journal of Applied Physiology, 2020, 128, 410-421.	1.2	4
42	Effects of Gender and Prior Swim Exercise on Glucose Uptake in Isolated Skeletal Muscles from Mice. Journal of Physiological Sciences, 2006, 56, 305-312.	0.9	4
43	Exercise effects on Î³3-AMPK activity, Akt substrate of 160 kDa phosphorylation, and glucose uptake in muscle of normal and insulin-resistant female rats. Journal of Applied Physiology, 2022, 132, 140-153.	1.2	4
44	Inhibition of Akt2 phosphorylation abolishes the calorie restriction-induced improvement in insulin-stimulated glucose uptake by rat soleus muscle. Applied Physiology, Nutrition and Metabolism, 2016, 41, 1208-1211.	0.9	3
45	Reduced membrane cholesterol content in skeletal muscle is not essential for greater insulin-stimulated glucose uptake after acute exercise by rats. Applied Physiology, Nutrition and Metabolism, 2021, 46, 685-689.	0.9	2
46	Prior AICAR induces elevated glucose uptake concomitant with greater Î³3-AMPK activation and reduced membrane cholesterol in skeletal muscle from 26-month-old rats. Facets, 2022, 7, 774-791.	1.1	1