

# Edward B Arias

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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. <i>Diabetes</i> , 2022, 71, 219-232.	0.3	10
2	Exercise effects on $\hat{I}^{33}$ -AMPK activity, Akt substrate of 160 kDa phosphorylation, and glucose uptake in muscle of normal and insulin-resistant female rats. <i>Journal of Applied Physiology</i> , 2022, 132, 140-153.	1.2	4
3	Prior AICAR induces elevated glucose uptake concomitant with greater $\hat{I}^{33}$ -AMPK activation and reduced membrane cholesterol in skeletal muscle from 26-month-old rats. <i>Facets</i> , 2022, 7, 774-791.	1.1	1
4	Reduced membrane cholesterol content in skeletal muscle is not essential for greater insulin-stimulated glucose uptake after acute exercise by rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 685-689.	0.9	2
5	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. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2020, 75, 207-217.	1.7	5
6	In vivo glucoregulation and tissue-specific glucose uptake in female Akt substrate 160 kDa knockout rats. <i>PLoS ONE</i> , 2020, 15, e0223340.	1.1	10
7	Exercise effects on $\hat{I}^{33}$ -AMPK activity, phosphorylation of Akt2 and AS160, and insulin-stimulated glucose uptake in insulin-resistant rat skeletal muscle. <i>Journal of Applied Physiology</i> , 2020, 128, 410-421.	1.2	4
8	Fiber type-specific effects of acute exercise on insulin-stimulated AS160 phosphorylation in insulin-resistant rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E984-E998.	1.8	8
9	Whole body glucoregulation and tissue-specific glucose uptake in a novel Akt substrate of 160 kDa knockout rat model. <i>PLoS ONE</i> , 2019, 14, e0216236.	1.1	20
10	Fiber type-selective exercise effects on AS160 phosphorylation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E837-E851.	1.8	12
11	Skeletal muscle fiber type-selective effects of acute exercise on insulin-stimulated glucose uptake in insulin-resistant, high-fat-fed rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 316, E695-E706.	1.8	20
12	Measuring Both Glucose Uptake and Myosin Heavy Chain Isoform Expression in Single Rat Skeletal Muscle Fibers. <i>Methods in Molecular Biology</i> , 2019, 1889, 283-300.	0.4	7
13	Prior treatment with the AMPK activator AICAR induces subsequently enhanced glucose uptake in isolated skeletal muscles from 24-month-old rats. <i>Applied Physiology, Nutrition and Metabolism</i> , 2018, 43, 795-805.	0.9	13
14	Postexercise improvement in glucose uptake occurs concomitant with greater $\hat{I}^{33}$ -AMPK activation and AS160 phosphorylation in rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E859-E871.	1.8	18
15	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. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 1638-1646.	1.7	11
16	High-Fat Diet-Induced Insulin Resistance in Single Skeletal Muscle Fibers is Fiber Type Selective. <i>Scientific Reports</i> , 2017, 7, 13642.	1.6	27
17	Mechanism of insulin resistance in a rat model of kidney disease and the risk of developing type 2 diabetes. <i>PLoS ONE</i> , 2017, 12, e0176650.	1.1	13
18	Inhibition of Akt2 phosphorylation abolishes the calorie restriction-induced improvement in insulin-stimulated glucose uptake by rat soleus muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2016, 41, 1208-1211.	0.9	3

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19	Novel single skeletal muscle fiber analysis reveals a fiber type-selective effect of acute exercise on glucose uptake. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 311, E818-E824.	1.8	24
20	Protein Phosphatase 1 $\beta$ Regulates AS160 Ser588 and Thr642 Dephosphorylation in Skeletal Muscle. <i>Diabetes</i> , 2016, 65, 2606-2617.	0.3	17
21	Calorie restriction leads to greater Akt2 activity and glucose uptake by insulin-stimulated skeletal muscle from old rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R449-R458.	0.9	15
22	Insulin Signaling and Glucose Uptake in the Soleus Muscle of 30-Month-Old Rats After Calorie Restriction With or Without Acute Exercise. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 323-332.	1.7	19
23	Mechanisms for independent and combined effects of calorie restriction and acute exercise on insulin-stimulated glucose uptake by skeletal muscle of old rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E603-E612.	1.8	21
24	Effects of a brief high-fat diet and acute exercise on the mTORC1 and IKK/NF- $\kappa$ B pathways in rat skeletal muscle. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015, 40, 251-262.	0.9	7
25	Fiber type effects on contraction-stimulated glucose uptake and GLUT4 abundance in single fibers from rat skeletal muscle. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 308, E223-E230.	1.8	21
26	Postexercise Improvement in Insulin-Stimulated Glucose Uptake Occurs Concomitant With Greater AS160 Phosphorylation in Muscle From Normal and Insulin-Resistant Rats. <i>Diabetes</i> , 2014, 63, 2297-2308.	0.3	78
27	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. <i>Age</i> , 2013, 35, 573-582.	3.0	23
28	Greater filamin C, GSK3 $\beta$ , and GSK3 $\alpha$ serine phosphorylation in insulin-stimulated isolated skeletal muscles of calorie restricted 24 month-old rats. <i>Mechanisms of Ageing and Development</i> , 2013, 134, 60-63.	2.2	11
29	Greater insulin-mediated Akt phosphorylation concomitant with heterogeneous effects on phosphorylation of Akt substrates in soleus of calorie-restricted rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 303, R1261-R1267.	0.9	11
30	Calorie Restriction Enhances Insulin-Stimulated Glucose Uptake and Akt Phosphorylation in Both Fast-Twitch and Slow-Twitch Skeletal Muscle of 24-Month-Old Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67, 1279-1285.	1.7	40
31	Fiber Type-Specific Differences in Glucose Uptake by Single Fibers From Skeletal Muscles of 9- and 25-Month-Old Rats. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67, 1286-1294.	1.7	20
32	Sustained postexercise increases in AS160 Thr <sup>642</sup> and Ser <sup>588</sup> phosphorylation in skeletal muscle without sustained increases in kinase phosphorylation. <i>Journal of Applied Physiology</i> , 2012, 113, 1852-1861.	1.2	44
33	Preventing the calorie restriction-induced increase in insulin-stimulated Akt2 phosphorylation eliminates calorie restriction's effect on glucose uptake in skeletal muscle. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 1735-1740.	1.8	24
34	Mechanisms for increased insulin-stimulated Akt phosphorylation and glucose uptake in fast- and slow-twitch skeletal muscles of calorie-restricted rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E966-E978.	1.8	49
35	Insulin resistance for glucose uptake and Akt2 phosphorylation in the soleus, but not epitrochlearis, muscles of old vs. adult rats. <i>Journal of Applied Physiology</i> , 2010, 108, 1631-1640.	1.2	25
36	A Low Dose of Dietary Resveratrol Partially Mimics Caloric Restriction and Retards Aging Parameters in Mice. <i>PLoS ONE</i> , 2008, 3, e2264.	1.1	504

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37	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
38	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
39	Increased submaximal insulin-stimulated glucose uptake in mouse skeletal muscle after treadmill exercise. Journal of Applied Physiology, 2006, 101, 1368-1376.	1.2	74
40	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
41	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
42	Postcontraction insulin sensitivity: relationship with contraction protocol, glycogen concentration, and AMP-activated protein kinase phosphorylation. Journal of Applied Physiology, 2004, 96, 575-583.	1.2	59
43	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
44	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
45	Regional Distribution and Hormonal Control of Estrogen-Dependent Oviduct-Specific Glycoprotein Messenger Ribonucleic Acid in the Baboon ( <i>Papio anubis</i> ) <sup>1</sup> . Biology of Reproduction, 1996, 55, 421-426.	1.2	35
46	Complementary Deoxyribonucleic Acid Cloning and Molecular Characterization of an Estrogen-Dependent Human Oviductal Glycoprotein <sup>1</sup> . Biology of Reproduction, 1994, 51, 685-694.	1.2	137