Alexander V Chibalin

List of Publications by Year
in descending order

70	3,199	136950	155660
papers	citations	32 h-index	55 g-index

70	70	70	3335
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	5-Amino-Imidazole Carboxamide Riboside Increases Glucose Transport and Cell-Surface GLUT4 Content in Skeletal Muscle From Subjects With Type 2 Diabetes. Diabetes, 2003, 52, 1066-1072.	0.6	214
2	Divergent effects of exercise on metabolic and mitogenic signaling pathways in human skeletal muscle. FASEB Journal, 1998, 12, 1379-1389.	0.5	209
3	Downregulation of Diacylglycerol Kinase Delta Contributes to Hyperglycemia-Induced Insulin Resistance. Cell, 2008, 132, 375-386.	28.9	194
4	Dopamine-induced Endocytosis of Na+,K+-ATPase Is Initiated by Phosphorylation of Ser-18 in the Rat Î± Subunit and Is Responsible for the Decreased Activity in Epithelial Cells. Journal of Biological Chemistry, 1999, 274, 1920-1927.	3.4	190
5	Phosphorylation of the Catalyic Î±-Subunit Constitutes a Triggering Signal for Na+,K+-ATPase Endocytosis. Journal of Biological Chemistry, 1998, 273, 8814-8819.	3.4	146
6	Receptor-mediated inhibition of renal Na⁺-K⁺-ATPase is associated with endocytosis of its Î±- and Î²-subunits. American Journal of Physiology - Cell Physiology, 1997, 273, C1458-C1465.	4.6	114
7	Isoproterenol increases Na⁺-K⁺-ATPase activity by membrane insertion of Î±-subunits in lung alveolar cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 276, L20-L27.	2.9	107
8	Marathon running increases ERK1/2 and p38 MAP kinase signalling to downstream targets in human skeletal muscle. Journal of Physiology, 2001, 536, 273-282.	2.9	98
9	Comparative profiling of skeletal muscle models reveals heterogeneity of transcriptome and metabolism. American Journal of Physiology - Cell Physiology, 2020, 318, C615-C626.	4.6	91
10	Acute sleep loss results in tissue-specific alterations in genome-wide DNA methylation state and metabolic fuel utilization in humans. Science Advances, 2018, 4, eaar8590.	10.3	86
11	ERK1/2 Mediates Insulin Stimulation of Na,K-ATPase by Phosphorylation of the Î±-Subunit in Human Skeletal Muscle Cells. Journal of Biological Chemistry, 2004, 279, 25211-25218.	3.4	83
12	Phosphatidylinositol 3-Kinase-mediated Endocytosis of Renal Na+,K+-ATPase Î± Subunit in Response to Dopamine. Molecular Biology of the Cell, 1998, 9, 1209-1220.	2.1	82
13	Na,K-ATPase regulation in skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E1-E31.	3.5	79
14	Methotrexate Promotes Glucose Uptake and Lipid Oxidation in Skeletal Muscle via AMPK Activation. Diabetes, 2015, 64, 360-369.	0.6	66
15	Glucose Decreases Na+,K+-ATPase Activity in Pancreatic Î²-Cells. Journal of Biological Chemistry, 1999, 274, 2000-2008.	3.4	65
16	Protein kinase A induces recruitment of active Na+,K+-ATPase units to the plasma membrane of rat proximal convoluted tubule cells. Journal of Physiology, 1998, 511, 235-243.	2.9	64
17	Cardiotonic Steroids Stimulate Glycogen Synthesis in Human Skeletal Muscle Cells via a Src- and ERK1/2-dependent Mechanism. Journal of Biological Chemistry, 2006, 281, 20085-20094.	3.4	61
18	Activation of AMP-activated Protein Kinase Stimulates Na+,K+-ATPase Activity in Skeletal Muscle Cells. Journal of Biological Chemistry, 2012, 287, 23451-23463.	3.4	58

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19	AMP-activated protein kinase activator A-769662 is an inhibitor of the Na+-K+-ATPase. American Journal of Physiology - Cell Physiology, 2009, 297, C1554-C1566.	4.6	56
20	Na+,K+-ATPase trafficking in skeletal muscle: insulin stimulates translocation of both Î±1- and Î±2-subunit isoforms. FEBS Letters, 2003, 536, 198-202.	2.8	55
21	MEF2 activation in differentiated primary human skeletal muscle cultures requires coordinated involvement of parallel pathways. American Journal of Physiology - Cell Physiology, 2004, 286, C1410-C1416.	4.6	55
22	The Nicotinic Acetylcholine Receptor and the Na,K-ATPase Î±2 Isoform Interact to Regulate Membrane Electrogenesis in Skeletal Muscle. Journal of Biological Chemistry, 2010, 285, 28614-28626.	3.4	55
23	Insulin- and Glucose-Induced Phosphorylation of the Na⁺,K⁺-Adenosine Triphosphatase Î±-Subunits in Rat Skeletal Muscle. Endocrinology, 2001, 142, 3474-3482.	2.8	51
24	Neuregulins Mediate Calcium-induced Glucose Transport during Muscle Contraction. Journal of Biological Chemistry, 2006, 281, 21690-21697.	3.4	47
25	Distinct Î±2 Na,K-ATPase membrane pools are differently involved in early skeletal muscle remodeling during disuse. Journal of General Physiology, 2016, 147, 175-188.	1.9	47
26	Membrane lipid rafts are disturbed in the response of rat skeletal muscle to short-term disuse. American Journal of Physiology - Cell Physiology, 2017, 312, C627-C637.	4.6	46
27	In vitro analysis of the glucose-transport system in GLUT4-null skeletal muscle. Biochemical Journal, 1999, 342, 321-328.	3.7	43
28	Frontiers: Skeletal muscle sodium pump regulation: a translocation paradigm. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E553-E558.	3.5	43
29	Early endplate remodeling and skeletal muscle signaling events following rat hindlimb suspension. Journal of Cellular Physiology, 2018, 233, 6329-6336.	4.1	36
30	Altered expression and insulin-induced trafficking of Na⁺-K⁺-ATPase in rat skeletal muscle: effects of high-fat diet and exercise. American Journal of Physiology - Endocrinology and Metabolism, 2009, 297, E38-E49.	3.5	35
31	Chronic Nicotine Modifies Skeletal Muscle Na,K-ATPase Activity through Its Interaction with the Nicotinic Acetylcholine Receptor and Phospholemman. PLoS ONE, 2012, 7, e33719.	2.5	34
32	C-Peptide Increases Na,K-ATPase Expression via PKC- and MAP Kinase-Dependent Activation of Transcription Factor ZEB in Human Renal Tubular Cells. PLoS ONE, 2011, 6, e28294.	2.5	33
33	Effect of N-acetylcysteine infusion on exercise-induced modulation of insulin sensitivity and signaling pathways in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E388-E397.	3.5	33
34	Effect of exercise and training on phospholemman phosphorylation in human skeletal muscle. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E456-E466.	3.5	31
35	Diacylglycerol kinase-Î´ regulates AMPK signaling, lipid metabolism, and skeletal muscle energetics. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E51-E60.	3.5	31
36	Exercise training improves mitochondrial respiration and is associated with an altered intramuscular phospholipid signature in women with obesity. Diabetologia, 2021, 64, 1642-1659.	6.3	30

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37	Secreted protein acidic and rich in cysteine (SPARC) improves glucose toleranceviaAMPâ€activated protein kinase activation. FASEB Journal, 2019, 33, 10551-10562.	0.5	25
38	Influence of chronic and acute spinal cord injury on skeletal muscle Na⁺-K⁺-ATPase and phospholemman expression in humans. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E864-E871.	3.5	24
39	Transcriptomic changes in C2C12 myotubes triggered by electrical stimulation: Role of Ca2+i-mediated and Ca2+i-independent signaling and elevated [Na+]i/[K+]i ratio. Cell Calcium, 2018, 76, 72-86.	2.4	24
40	Proteomics Analysis of Skeletal Muscle from Leptinâ€Deficient ob/ob Mice Reveals Adaptive Remodeling of Metabolic Characteristics and Fiber Type Composition. Proteomics, 2018, 18, e1700375.	2.2	22
41	Functional characterisation of mutations in the ligand-binding domain of the androgen receptor gene in patients with androgen insensitivity syndrome. Human Genetics, 1998, 103, 529-431.	3.8	20
42	FAK tyrosine phosphorylation is regulated by AMPK and controls metabolism in human skeletal muscle. Diabetologia, 2018, 61, 424-432.	6.3	20
43	Branched-chain amino acid metabolism is regulated by ERRÎ± in primary human myotubes and is further impaired by glucose loading in type 2 diabetes. Diabetologia, 2021, 64, 2077-2091.	6.3	20
44	mRNA expression of diacylglycerol kinase isoforms in insulin-sensitive tissues: effects of obesity and insulin resistance. Physiological Reports, 2015, 3, e12372.	1.7	19
45	Nucleosides block AICAR-stimulated activation of AMPK in skeletal muscle and cancer cells. American Journal of Physiology - Cell Physiology, 2018, 315, C803-C817.	4.6	17
46	Association of the ACTN3 R577X polymorphism with glucose tolerance and gene expression of sarcomeric proteins in human skeletal muscle. Physiological Reports, 2015, 3, e12314.	1.7	16
47	Ouabain Suppresses IL-6/STAT3 Signaling and Promotes Cytokine Secretion in Cultured Skeletal Muscle Cells. Frontiers in Physiology, 2020, 11, 566584.	2.8	16
48	Discovery of thymosin Î²4 as a human exerkine and growth factor. American Journal of Physiology - Cell Physiology, 2021, 321, C770-C778.	4.6	16
49	MicroRNA-208b progressively declines after spinal cord injury in humans and is inversely related to myostatin expression. Physiological Reports, 2015, 3, e12622.	1.7	15
50	Diacylglycerol kinase Îµ deficiency preserves glucose tolerance and modulates lipid metabolism in obese mice. Journal of Lipid Research, 2017, 58, 907-915.	4.2	15
51	Modified UCN2 Peptide Acts as an Insulin Sensitizer in Skeletal Muscle of Obese Mice. Diabetes, 2019, 68, 1403-1414.	0.6	15
52	DGKÎ¶ deficiency protects against peripheral insulin resistance and improves energy metabolism. Journal of Lipid Research, 2017, 58, 2324-2333.	4.2	14
53	Diacylglycerol kinase Î± deficiency alters inflammation markers in adipose tissue in response to a high-fat diet. Journal of Lipid Research, 2018, 59, 273-282.	4.2	13
54	Hormonal regulation of Na+-K+-ATPase from the evolutionary perspective. Current Topics in Membranes, 2019, 83, 315-351.	0.9	13

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55	The role of AMPK in regulation of Na+,K+-ATPase in skeletal muscle: does the gauge always plug the sink?. Journal of Muscle Research and Cell Motility, 2021, 42, 77-97.	2.0	13
56	A simple and rapid method to characterize lipid fate in skeletal muscle. BMC Research Notes, 2014, 7, 391.	1.4	12
57	Regulation of the Na,K-ATPase: Special implications for cardiovascular complications of metabolic syndrome. Pathophysiology, 2007, 14, 153-158.	2.2	11
58	Early vertebrate origin and diversification of small transmembrane regulators of cellular ion transport. Journal of Physiology, 2017, 595, 4611-4630.	2.9	11
59	Phosphorylation of the Na⁺,K⁺â€ATPase in Skeletal Muscle. Annals of the New York Academy of Sciences, 2003, 986, 449-452.	3.8	9
60	AMPKÎ³3 is dispensable for skeletal muscle hypertrophy induced by functional overload. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E461-E472.	3.5	9
61	Isoform-specific Na,K-ATPase and membrane cholesterol remodeling in motor endplates in distinct mouse models of myodystrophy. American Journal of Physiology - Cell Physiology, 2020, 318, C1030-C1041.	4.6	9
62	Low AS160 and high SGK basal phosphorylation associates with impaired incretin profile and type 2 diabetes in adipose tissue of obese patients. Diabetes Research and Clinical Practice, 2019, 158, 107928.	2.8	7
63	Effect of differentiation, de novo innervation, and electrical pulse stimulation on mRNA and protein expression of Na+,K+-ATPase, FXYD1, and FXYD5 in cultured human skeletal muscle cells. PLoS ONE, 2021, 16, e0247377.	2.5	7
64	Quantitative phosphoproteomic analysis of IRS1 in skeletal muscle from men with normal glucose tolerance or type 2 diabetes: A case-control study. Metabolism: Clinical and Experimental, 2021, 118, 154726.	3.4	5
65	Phosphorylation of Na+,K+-ATPase at Tyr10 of the Î±1-Subunit is Suppressed by AMPK and Enhanced by Ouabain in Cultured Kidney Cells. Journal of Membrane Biology, 2021, 254, 531-548.	2.1	5
66	Treadmill Training Effect on the Myokines Content in Skeletal Muscles of Mice With a Metabolic Disorder Model. Frontiers in Physiology, 2021, 12, 709039.	2.8	3
67	Effects of fibre type and diffusion distance on mouse skeletal muscle glycogen content in vitro. Journal of Cellular Biochemistry, 2009, 107, 1189-1197.	2.6	2
68	Commentaries on Viewpoint: Maximal Na⁺-K⁺-ATPase activity is upregulated in association with muscle activity. Journal of Applied Physiology, 2012, 112, 2124-2126.	2.5	2
69	Spatial insulin signalling in isolated skeletal muscle preparations. Journal of Cellular Biochemistry, 2010, 109, 943-949.	2.6	1
70	VALIDATION OF THEIN VITROINCUBATION OF EXTENSOR DIGITORUM LONGUS MUSCLE FROM MICE WITH A MATHEMATICAL MODEL. Journal of Biological Systems, 2010, 18, 687-707.	1.4	1