Peter H Willems

List of Publications by Year
in descending order

197 papers	14,174 citations	28736 57 h-index	26792 111 g-index
205 all docs	205 docs citations	205 times ranked	19868 citing authors

#	Article	IF	Citations
1	Octa-arginine boosts the penetration of elastin-like polypeptide nanoparticles in 3D cancer models. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 137, 175-184.	2.0	23
2	Improvements in fitness are not obligatory for exercise training-induced improvements in CV risk factors. Physiological Reports, 2018, 6, e13595.	0.7	9
3	Extracellular acidification induces ROS- and mPTP-mediated death in HEK293 cells. Redox Biology, 2018, 15, 394-404.	3.9	73
4	Biodegradable Synthetic Organelles Demonstrate ROS Shielding in Human-Complex-I-Deficient Fibroblasts. ACS Central Science, 2018, 4, 917-928.	5.3	63
5	Controlling T-Cell Activation with Synthetic Dendritic Cells Using the Multivalency Effect. ACS Omega, 2017, 2, 937-945.	1.6	48
6	Mitochondrial complex I inhibition triggers a mitophagy-dependent ROS increase leading to necroptosis and ferroptosis in melanoma cells. Cell Death and Disease, 2017, 8, e2716-e2716.	2.7	355
7	Therapeutic effects of the mitochondrial ROS-redox modulator KH176 in a mammalian model of Leigh Disease. Scientific Reports, 2017, 7, 11733.	1.6	33
8	Modulation of oxidative phosphorylation and redox homeostasis in mitochondrial NDUFS4 deficiency via mesenchymal stem cells. Stem Cell Research and Therapy, 2017, 8, 150.	2.4	26
9	Mitochondrial disorders in children: toward development of smallâ€molecule treatment strategies. EMBO Molecular Medicine, 2016, 8, 311-327.	3.3	86
10	Integrated High-Content Quantification of Intracellular ROS Levels and Mitochondrial Morphofunction. Advances in Anatomy, Embryology and Cell Biology, 2016, 219, 149-177.	1.0	12
11	Multiplexed high-content analysis of mitochondrial morphofunction using live-cell microscopy. Nature Protocols, 2016, 11, 1693-1710.	5.5	74
12	Acute stimulation of glucose influx by mitoenergetic dysfunction requires LKB1, AMPK, Sirt2 and mTOR/RAPTOR. Journal of Cell Science, 2016, 129, 4411-4423.	1.2	28
13	Broad defects in the energy metabolism of leukocytes underlie immunoparalysis in sepsis. Nature Immunology, 2016, 17, 406-413.	7.0	437
14	Increased mitochondrial ATP production capacity in brain of healthy mice and a mouse model of isolated complex I deficiency after isoflurane anesthesia. Journal of Inherited Metabolic Disease, 2016, 39, 59-65.	1.7	10
15	Quantifying small molecule phenotypic effects using mitochondrial morpho-functional fingerprinting and machine learning. Scientific Reports, 2015, 5, 8035.	1.6	36
16	Mitochondrial ADP/ATP exchange inhibition: a novel off-target mechanism underlying ibipinabant-induced myotoxicity. Scientific Reports, 2015, 5, 14533.	1.6	17
17	Interactions between mitochondrial reactive oxygen species and cellular glucose metabolism. Archives of Toxicology, 2015, 89, 1209-1226.	1.9	269
18	Sustained accumulation of prelamin A and depletion of lamin A/C both cause oxidative stress and mitochondrial dysfunction but induce different cell fates. Nucleus, 2015, 6, 236-246.	0.6	63

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19	Complex I and complex III inhibition specifically increase cytosolic hydrogen peroxide levels without inducing oxidative stress in HEK293 cells. Redox Biology, 2015, 6, 607-616.	3.9	60
20	Targeting mitochondrial complex I using BAY 87-2243 reduces melanoma tumor growth. Cancer & Metabolism, 2015, 3, 11.	2.4	139
21	Toward high-content screening of mitochondrial morphology and membrane potential in living cells. International Journal of Biochemistry and Cell Biology, 2015, 63, 66-70.	1.2	30
22	Mitochondrial diseases: Drosophila melanogaster as a model to evaluate potential therapeutics. International Journal of Biochemistry and Cell Biology, 2015, 63, 60-65.	1.2	26
23	Mitochondrial dysfunction in primary human fibroblasts triggers an adaptive cell survival program that requires AMPK-Î±. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 529-540.	1.8	40
24	Skeletal muscle mitochondria of NDUFS4âˆ'/âˆ' mice display normal maximal pyruvate oxidation and ATP production. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 526-533.	0.5	21
25	Redox Homeostasis and Mitochondrial Dynamics. Cell Metabolism, 2015, 22, 207-218.	7.2	538
26	Rotenone inhibits primary murine myotube formation via Raf-1 and ROCK2. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1606-1614.	1.9	14
27	PKCâ€mediated inhibitory feedback of the cholecystokinin 1 receptor controls the shape of oscillatory Ca‹sup›2+‹/sup› signals. FEBS Journal, 2015, 282, 2187-2201.	2.2	5
28	Mitoenergetic Dysfunction Triggers a Rapid Compensatory Increase in Steady-State Glucose Flux. Biophysical Journal, 2015, 109, 1372-1386.	0.2	45
29	Statin-Induced Myopathy Is Associated with Mitochondrial Complex III Inhibition. Cell Metabolism, 2015, 22, 399-407.	7.2	180
30	Live-Cell Assessment of Mitochondrial Reactive Oxygen Species Using Dihydroethidine. Methods in Molecular Biology, 2015, 1264, 161-169.	0.4	16
31	Automated Quantification and Integrative Analysis of 2D and 3D Mitochondrial Shape and Network Properties. PLoS ONE, 2014, 9, e101365.	1.1	55
32	Photo-Induction and Automated Quantification of Reversible Mitochondrial Permeability Transition Pore Opening in Primary Mouse Myotubes. PLoS ONE, 2014, 9, e114090.	1.1	15
33	Function and Regulation of the Na+-Ca2+ Exchanger NCX3 Splice Variants in Brain and Skeletal Muscle. Journal of Biological Chemistry, 2014, 289, 11293-11303.	1.6	33
34	Mitochondrial hyperpolarization during chronic complex I inhibition is sustained by low activity of complex II, III, IV and V. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1247-1256.	0.5	81
35	Isoflurane anesthetic hypersensitivity and progressive respiratory depression in a mouse model with isolated mitochondrial complex I deficiency. Journal of Anesthesia, 2014, 28, 807-814.	0.7	5
36	mTOR- and HIF-1Î±â€“mediated aerobic glycolysis as metabolic basis for trained immunity. Science, 2014, 345, 1250684.	6.0	1,517

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37	The role of mitochondrial OXPHOS dysfunction in the development of neurologic diseases. Neurobiology of Disease, 2013, 51, 27-34.	2.1	75
38	Primary fibroblasts of NDUFS4â^'/â^' mice display increased ROS levels and aberrant mitochondrial morphology. Mitochondrion, 2013, 13, 436-443.	1.6	41
39	Cellular and animal models for mitochondrial complex I deficiency: A focus on the NDUFS4 subunit. IUBMB Life, 2013, 65, 202-208.	1.5	40
40	A mutation in the FAM36A gene, the human ortholog of COX20, impairs cytochrome c oxidase assembly and is associated with ataxia and muscle hypotonia. Human Molecular Genetics, 2013, 22, 656-667.	1.4	75
41	BOLA1 Is an Aerobic Protein That Prevents Mitochondrial Morphology Changes Induced by Glutathione Depletion. Antioxidants and Redox Signaling, 2013, 18, 129-138.	2.5	46
42	Subunit-specific Incorporation Efficiency and Kinetics in Mitochondrial Complex I Homeostasis. Journal of Biological Chemistry, 2012, 287, 41851-41860.	1.6	34
43	Patient-derived fibroblasts indicate oxidative stress status and may justify antioxidant therapy in OXPHOS disorders. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1971-1978.	0.5	28
44	Metabolic consequences of NDUFS4 gene deletion in immortalized mouse embryonic fibroblasts. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1925-1936.	0.5	60
45	Inhibiting mitochondrial Complex I or Complex III differentially affects mitochondrial physiology. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, S55.	0.5	0
46	Mitochondrial complex III stabilizes complex I in the absence of NDUFS4 to provide partial activity. Human Molecular Genetics, 2012, 21, 115-120.	1.4	105
47	Time-resolved quantitative analysis of CCK1 receptor-induced intracellular calcium increase. Peptides, 2012, 34, 219-225.	1.2	10
48	Pharmacological targeting of mitochondrial complex I deficiency: The cellular level and beyond. Mitochondrion, 2012, 12, 57-65.	1.6	38
49	Transcriptional changes in OXPHOS complex I deficiency are related to anti-oxidant pathways and could explain the disturbed calcium homeostasis. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1161-1168.	1.8	30
50	A catalytic defect in mitochondrial respiratory chain complex I due to a mutation in NDUFS2 in a patient with Leigh syndrome. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 168-175.	1.8	26
51	Trolox-Sensitive Reactive Oxygen Species Regulate Mitochondrial Morphology, Oxidative Phosphorylation and Cytosolic Calcium Handling in Healthy Cells. Antioxidants and Redox Signaling, 2012, 17, 1657-1669.	2.5	63
52	Monogenic Mitochondrial Disorders. New England Journal of Medicine, 2012, 366, 1132-1141.	13.9	523
53	OXPHOS mutations and neurodegeneration. EMBO Journal, 2012, 32, 9-29.	3.5	214
54	Modeling mitochondrial dysfunctions in the brain: from mice to men. Journal of Inherited Metabolic Disease, 2012, 35, 193-210.	1.7	26

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55	Cysteamine restores glutathione redox status in cultured cystinotic proximal tubular epithelial cells. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 643-651.	1.8	85
56	Defective mitochondrial translation differently affects the live cell dynamics of complex I subunits. Biochimica Et Biophysica Acta - Bioenergetics, 2011, 1807, 1624-1633.	0.5	13
57	G37R SOD1 mutant alters mitochondrial complex I activity, Ca2+ uptake and ATP production. Cell Calcium, 2011, 49, 217-225.	1.1	54
58	Mouse models for nuclear DNAâ€encoded mitochondrial complex I deficiency. Journal of Inherited Metabolic Disease, 2011, 34, 293-307.	1.7	26
59	Quantitative Glucose and ATP Sensing in Mammalian Cells. Pharmaceutical Research, 2011, 28, 2745-2757.	1.7	53
60	Depletion of PINK1 affects mitochondrial metabolism, calcium homeostasis and energy maintenance. Journal of Cell Science, 2011, 124, 1115-1125.	1.2	167
61	Solute diffusion is hindered in the mitochondrial matrix. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8657-8662.	3.3	69
62	Clinical spectrum of the pseudotumor cerebri complex in children. Child's Nervous System, 2010, 26, 313-321.	0.6	54
63	Detection and manipulation of mitochondrial reactive oxygen species in mammalian cells. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 1034-1044.	0.5	133
64	Towards a quantitative systems level understanding of live-cell mitochondrial physiology in health and disease. Biochimica Et Biophysica Acta - Bioenergetics, 2010, 1797, 6.	0.5	0
65	Complex I disorders: Causes, mechanisms, and development of treatment strategies at the cellular level. Developmental Disabilities Research Reviews, 2010, 16, 175-182.	2.9	43
66	Acyl-CoA Dehydrogenase 9 Is Required for the Biogenesis of Oxidative Phosphorylation Complex I. Cell Metabolism, 2010, 12, 283-294.	7.2	172
67	Mammalian Mitochondrial Complex I: Biogenesis, Regulation, and Reactive Oxygen Species Generation. Antioxidants and Redox Signaling, 2010, 12, 1431-1470.	2.5	353
68	Chapter 16 The Use of Fluorescence Correlation Spectroscopy to Probe Mitochondrial Mobility and Intramatrix Protein Diffusion. Methods in Enzymology, 2009, 456, 287-302.	0.4	7
69	Human Golgi Antiapoptotic Protein Modulates Intracellular Calcium Fluxes. Molecular Biology of the Cell, 2009, 20, 3638-3645.	0.9	60
70	Contiguous gene deletion of ELOVL7, ERCC8 and NDUFAF2 in a patient with a fatal multisystem disorder. Human Molecular Genetics, 2009, 18, 3365-3374.	1.4	30
71	Parenteral medium-chain triglyceride-induced neutrophil activation is not mediated by a Pertussis Toxin sensitive receptor. Clinical Nutrition, 2009, 28, 59-64.	2.3	7
72	Baculovirus complementation restores a novelNDUFAF2mutation causing complex I deficiency. Human Mutation, 2009, 30, E728-E736.	1.1	44

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73	The non-gastric H,K-ATPase as a tool to study the ouabain-binding site in Na,K-ATPase. Pflugers Archiv European Journal of Physiology, 2009, 457, 623-634.	1.3	18
74	The antioxidant Trolox restores mitochondrial membrane potential and Ca2+-stimulated ATP production in human complex I deficiency. Journal of Molecular Medicine, 2009, 87, 515-522.	1.7	68
75	FXYD2 and Na,K-ATPase Expression in Isolated Human Proximal Tubular Cells: Disturbed Upregulation on Renal Hypomagnesemia?. Journal of Membrane Biology, 2009, 231, 117-124.	1.0	6
76	Mutations in NDUFAF3 (C3ORF60), Encoding an NDUFAF4 (C6ORF66)-Interacting Complex I Assembly Protein, Cause Fatal Neonatal Mitochondrial Disease. American Journal of Human Genetics, 2009, 84, 718-727.	2.6	155
77	Mitochondrial dynamics in human NADH:ubiquinone oxidoreductase deficiency. International Journal of Biochemistry and Cell Biology, 2009, 41, 1773-1782.	1.2	47
78	Calcium and ATP handling in human NADH:Ubiquinone oxidoreductase deficiency. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 1130-1137.	1.8	25
79	Life cell quantification of mitochondrial membrane potential at the single organelle level. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 129-138.	1.1	75
80	Mitochondrial function and morphology are impaired in parkinâ€mutant fibroblasts. Annals of Neurology, 2008, 64, 555-565.	2.8	339
81	NDUFA2 Complex I Mutation Leads to Leigh Disease. American Journal of Human Genetics, 2008, 82, 1306-1315.	2.6	119
82	Mitochondrial Ca2+ homeostasis in human NADH:ubiquinone oxidoreductase deficiencyâ˜†. Cell Calcium, 2008, 44, 123-133.	1.1	60
83	Mitigation of NADH: Ubiquinone oxidoreductase deficiency by chronic Trolox treatment. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, 853-859.	0.5	48
84	Computer-assisted live cell analysis of mitochondrial membrane potential, morphology and calcium handling. Methods, 2008, 46, 304-311.	1.9	89
85	Impaired routing of wild type FXYD2 after oligomerisation with FXYD2-G41R might explain the dominant nature of renal hypomagnesemia. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 398-404.	1.4	24
86	Mitochondrial complex I deficiency: from organelle dysfunction to clinical disease. Brain, 2008, 132, 833-842.	3.7	270
87	Functional Analysis of Picornavirus 2B Proteins: Effects on Calcium Homeostasis and Intracellular Protein Trafficking. Journal of Virology, 2008, 82, 3782-3790.	1.5	110
88	Subunits of Mitochondrial Complex I Exist as Part of Matrix- and Membrane-associated Subcomplexes in Living Cells. Journal of Biological Chemistry, 2008, 283, 34753-34761.	1.6	59
89	Inherited complex I deficiency is associated with faster protein diffusion in the matrix of moving mitochondria. American Journal of Physiology - Cell Physiology, 2008, 294, C1124-C1132.	2.1	30
90	Mitochondrial processes are impaired in hereditary inclusion body myopathy. Human Molecular Genetics, 2008, 17, 3663-3674.	1.4	49

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91	Identification of Mitochondrial Complex I Assembly Intermediates by Tracing Tagged NDUFS3 Demonstrates the Entry Point of Mitochondrial Subunits. Journal of Biological Chemistry, 2007, 282, 7582-7590.	1.6	132
92	Reduction of phospholipase D activity during coxsackievirus infection. Journal of General Virology, 2007, 88, 3027-3030.	1.3	2
93	Human NADH:ubiquinone oxidoreductase deficiency: radical changes in mitochondrial morphology?. American Journal of Physiology - Cell Physiology, 2007, 293, C22-C29.	2.1	115
94	Cystine Dimethylester Model of Cystinosis: Still Reliable?. Pediatric Research, 2007, 62, 151-155.	1.1	23
95	Cytosolic signaling protein Ecsit also localizes to mitochondria where it interacts with chaperone NDUFAF1 and functions in complex I assembly. Genes and Development, 2007, 21, 615-624.	2.7	177
96	Superoxide production is inversely related to complex I activity in inherited complex I deficiency. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 373-381.	1.8	123
97	Mitochondrial and cytosolic thiol redox state are not detectably altered in isolated human NADH:ubiquinone oxidoreductase deficiency. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 1041-1051.	1.8	69
98	The human non-gastric H,K-ATPase has a different cation specificity than the rat enzyme. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 580-589.	1.4	17
99	Partial complex I inhibition decreases mitochondrial motility and increases matrix protein diffusion as revealed by fluorescence correlation spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2007, 1767, 940-947.	0.5	27
100	Phytanic acid impairs mitochondrial respiration through protonophoric action. Cellular and Molecular Life Sciences, 2007, 64, 3271-3281.	2.4	51
101	Decreased agonist-stimulated mitochondrial ATP production caused by a pathological reduction in endoplasmic reticulum calcium content in human complex I deficiency. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2006, 1762, 115-123.	1.8	38
102	Simultaneous quantitative measurement and automated analysis of mitochondrial morphology, mass, potential, and motility in living human skin fibroblasts. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 1-12.	1.1	128
103	Simultaneous quantification of oxidative stress and cell spreading using 5-(and-6)-chloromethyl-2â€²,7â€²-dichlorofluorescein. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 1184-1192.	1.1	46
104	Decreased Intracellular ATP Content and Intact Mitochondrial Energy Generating Capacity in Human Cystinotic Fibroblasts. Pediatric Research, 2006, 59, 287-292.	1.1	52
105	Conversion of the Low Affinity Ouabain-binding Site of Non-gastric H,K-ATPase into a High Affinity Binding Site by Substitution of Only Five Amino Acids. Journal of Biological Chemistry, 2006, 281, 13533-13539.	1.6	24
106	Ca2+-mobilizing agonists increase mitochondrial ATP production to accelerate cytosolic Ca2+removal: aberrations in human complex I deficiency. American Journal of Physiology - Cell Physiology, 2006, 291, C308-C316.	2.1	29
107	The Coxsackievirus 2B Protein Increases Efflux of Ions from the Endoplasmic Reticulum and Golgi, thereby Inhibiting Protein Trafficking through the Golgi. Journal of Biological Chemistry, 2006, 281, 14144-14150.	1.6	88
108	Human mitochondrial complex I assembly is mediated by NDUFAF1. FEBS Journal, 2005, 272, 5317-5326.	2.2	126

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109	Amplitude modulation of nuclear Ca2+ signals in human skeletal myotubes: A possible role for nuclear Ca2+ buffering. Cell Calcium, 2005, 38, 141-152.	1.1	4
110	Inhibition of complex I of the electron transport chain causes O2â˙Â-mediated mitochondrial outgrowth. American Journal of Physiology - Cell Physiology, 2005, 288, C1440-C1450.	2.1	260
111	Mitochondrial network complexity and pathological decrease in complex I activity are tightly correlated in isolated human complex I deficiency. American Journal of Physiology - Cell Physiology, 2005, 289, C881-C890.	2.1	169
112	The Non-gastric H,K-ATPase Is Oligomycin-sensitive and Can Function as an H+,NH4+-ATPase. Journal of Biological Chemistry, 2005, 280, 33115-33122.	1.6	51
113	Asn792 Participates in the Hydrogen Bond Network Around the K+-binding Pocket of Gastric H,K-ATPase. Journal of Biological Chemistry, 2005, 280, 11488-11494.	1.6	9
114	Reconstruction of the Complete Ouabain-binding Pocket of Na,K-ATPase in Gastric H,K-ATPase by Substitution of Only Seven Amino Acids. Journal of Biological Chemistry, 2005, 280, 32349-32355.	1.6	62
115	Activated Leukocyte Cell Adhesion Molecule (ALCAM/CD166/MEMD), a Novel Actor in Invasive Growth, Controls Matrix Metalloproteinase Activity. Cancer Research, 2005, 65, 8801-8808.	0.4	102
116	Enterovirus protein 2B po(u)res out the calcium: a viral strategy to survive?. Trends in Microbiology, 2005, 13, 41-44.	3.5	65
117	Cytoskeletal restraints regulate homotypic ALCAM-mediated adhesion through PKCÎ± independently of Rho-like GTPases. Journal of Cell Science, 2004, 117, 2841-2852.	1.2	46
118	Cell Biological Consequences of Mitochondrial NADH: Ubiquinone Oxidoreductase Deficiency. Current Neurovascular Research, 2004, 1, 29-40.	0.4	60
119	Inhibition of Mitochondrial Na+-Ca2+ Exchange Restores Agonist-induced ATP Production and Ca2+ Handling in Human Complex I Deficiency. Journal of Biological Chemistry, 2004, 279, 40328-40336.	1.6	101
120	Renal tubular toxicity of HMG-CoA reductase inhibitors. Nephrology Dialysis Transplantation, 2004, 19, 3176-3179.	0.4	25
121	Mutational Analysis of Different Regions in the Coxsackievirus 2B Protein. Journal of Biological Chemistry, 2004, 279, 19924-19935.	1.6	42
122	The Coxsackievirus 2B Protein Suppresses Apoptotic Host Cell Responses by Manipulating Intracellular Ca2+ Homeostasis. Journal of Biological Chemistry, 2004, 279, 18440-18450.	1.6	116
123	A Conformation-specific Interhelical Salt Bridge in the K+ Binding Site of Gastric H,K-ATPase. Journal of Biological Chemistry, 2004, 279, 16417-16424.	1.6	32
124	Lipid effects on neutrophil calcium signaling induced by opsonized particles: platelet activating factor is only part of the story. Clinical Nutrition, 2004, 23, 623-630.	2.3	9
125	Two Technetium-99m-Labeled Cholecystokinin-8 (CCK8) Peptides for Scintigraphic Imaging of CCK Receptors. Bioconjugate Chemistry, 2004, 15, 561-568.	1.8	43
126	Regulation of GLUT1-mediated glucose uptake by PKCÎ»â€“PKCÎ²II interactions in 3T3-L1 adipocytes. Biochemical Journal, 2004, 384, 349-355.	1.7	16

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127	Exploring Levels of Hexosamine Biosynthesis Pathway Intermediates and Protein Kinase C Isoforms in Muscle and Fat Tissue of Zucker Diabetic Fatty Rats. Endocrine, 2003, 20, 247-252.	2.2	10
128	Inhibition of Protein Kinase CÎ²IIIncreases Glucose Uptake in 3T3-L1 Adipocytes through Elevated Expression of Glucose Transporter 1 at the Plasma Membrane. Molecular Endocrinology, 2003, 17, 1230-1239.	3.7	16
129	Determinants for Membrane Association and Permeabilization of the Coxsackievirus 2B Protein and the Identification of the Golgi Complex as the Target Organelle. Journal of Biological Chemistry, 2003, 278, 1012-1021.	1.6	84
130	Phenotypic knockout of heparan sulfates in myotubes impairs excitationâ€induced calcium spiking. FASEB Journal, 2003, 17, 1-24.	0.2	8
131	Disturbed Ca2+ kinetics in N-deacetylase/N-sulfotransferase-1 defective myotubes. Journal of Cell Science, 2003, 116, 2187-2193.	1.2	13
132	Phe783, Thr797, and Asp804 in Transmembrane Hairpin M5-M6 of Na+,K+-ATPase Play a Key Role in Ouabain Binding. Journal of Biological Chemistry, 2003, 278, 47240-47244.	1.6	36
133	R-Ras Alters Ca2+ Homeostasis by Increasing the Ca2+ Leak across the Endoplasmic Reticular Membrane. Journal of Biological Chemistry, 2003, 278, 13672-13679.	1.6	18
134	The Structural Unit of the Thiazide-sensitive NaCl Cotransporter Is a Homodimer. Journal of Biological Chemistry, 2003, 278, 24302-24307.	1.6	81
135	Functional Expression of the Human Thiazide-Sensitive NaCl Cotransporter in Madin-Darby Canine Kidney Cells. Journal of the American Society of Nephrology: JASN, 2003, 14, 2428-2435.	3.0	26
136	Upregulation of Ca²⁺removal in human skeletal muscle: a possible role for Ca²⁺-dependent priming of mitochondrial ATP synthesis. American Journal of Physiology - Cell Physiology, 2003, 285, C1263-C1269.	2.1	8
137	Functional Expression of Mutations in the Human NaCl Cotransporter: Evidence for Impaired Routing Mechanisms in Gitelmanâ€™s Syndrome. Journal of the American Society of Nephrology: JASN, 2002, 13, 1442-1448.	3.0	135
138	The Creatine Kinase System Is Essential for Optimal Refill of the Sarcoplasmic Reticulum Ca2+ Store in Skeletal Muscle. Journal of Biological Chemistry, 2002, 277, 5275-5284.	1.6	49
139	Homomultimerization of the Coxsackievirus 2B Protein in Living Cells Visualized by Fluorescence Resonance Energy Transfer Microscopy. Journal of Virology, 2002, 76, 9446-9456.	1.5	50
140	Native LDL potentiate TNFÎ± and IL-8 production by human mononuclear cells. Journal of Lipid Research, 2002, 43, 1065-1071.	2.0	15
141	TRH signal transduction in melanotrope cells of Xenopus laevis. General and Comparative Endocrinology, 2002, 127, 80-88.	0.8	4
142	Hormonal regulation of phospholipase D activity in Ca2+ transporting cells of rabbit connecting tubule and cortical collecting duct. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1538, 329-338.	1.9	1
143	Mimicking of K+Activation by Double Mutation of Glutamate 795 and Glutamate 820 of Gastric H+,K+-ATPaseâ€. Biochemistry, 2001, 40, 6527-6533.	1.2	17
144	K+-independent Gastric H+,K+-ATPase Activity. Journal of Biological Chemistry, 2001, 276, 36909-36916.	1.6	19

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145	Chimeras of X+,K+-ATPases. Journal of Biological Chemistry, 2001, 276, 11705-11711.	1.6	9
146	Hysteresis and bistability in a realistic model for IP3-driven Ca2+oscillations. Europhysics Letters, 2001, 55, 746-752.	0.7	6
147	Probenecid interferes with renal oxidative metabolism: A potential pitfall in its use as an inhibitor of drug transport. British Journal of Pharmacology, 2000, 131, 57-62.	2.7	21
148	Oxidized low-density lipoprotein induces calcium influx in polymorphonuclear leukocytes. Free Radical Biology and Medicine, 2000, 29, 747-755.	1.3	17
149	High-affinity ouabain binding by a chimeric gastric H+,K+-ATPase containing transmembrane hairpins M3-M4 and M5-M6 of the alpha 1-subunit of rat Na+,K+-ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11209-11214.	3.3	38
150	Protein Kinase C Î± Controls Erythropoietin Receptor Signaling. Journal of Biological Chemistry, 2000, 275, 34719-34727.	1.6	70
151	Permeation and Gating Properties of the Novel Epithelial Ca2+ Channel. Journal of Biological Chemistry, 2000, 275, 3963-3969.	1.6	288
152	Inhibitory and Stimulatory Interactions Between Endogenous Gonadotropin-Releasing Hormones in the African Catfish (Clarias gariepinus)1. Biology of Reproduction, 2000, 62, 731-738.	1.2	30
153	Mutation of Aspartate 804 of Na+,K+-ATPase Modifies the Cation Binding Pocket and Thereby Generates a High Na+-ATPase Activity. Biochemistry, 2000, 39, 9959-9966.	1.2	20
154	Molecular Identification of the Apical Ca2+Channel in 1,25-Dihydroxyvitamin D3-responsive Epithelia. Journal of Biological Chemistry, 1999, 274, 8375-8378.	1.6	534
155	Atrial natriuretic peptide-stimulated Ca2+ reabsorption in rabbit kidney requires membrane-targeted, cGMP-dependent protein kinase type II. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 6084-6089.	3.3	51
156	Hormone-stimulated Ca2+ reabsorption in rabbit kidney cortical collecting system is cAMP-independent and involves a phorbol ester-insensitive PKC isotype. Kidney International, 1999, 55, 225-233.	2.6	68
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