Andre Terzic

List of Publications by Year
in descending order

360 papers	21,090 citations	7096 78 h-index	13379 130 g-index
366 all docs	366 docs citations	366 times ranked	19715 citing authors

#	Article	IF	Citations
1	Somatic Oxidative Bioenergetics Transitions into Pluripotency-Dependent Glycolysis to Facilitate Nuclear Reprogramming. Cell Metabolism, 2011, 14, 264-271.	16.2	866
2	Metabolic Plasticity in Stem Cell Homeostasis and Differentiation. Cell Stem Cell, 2012, 11, 596-606.	11.1	561
3	Kv1.5 channelopathy due to KCNA5 loss-of-function mutation causes human atrial fibrillation. Human Molecular Genetics, 2006, 15, 2185-2191.	2.9	446
4	Repair of Acute Myocardial Infarction by Human Stemness Factors Induced Pluripotent Stem Cells. Circulation, 2009, 120, 408-416.	1.6	444
5	Stem cell differentiation requires a paracrine pathway in the heart. FASEB Journal, 2002, 16, 1558-1566.	0.5	442
6	Mitochondrial oxidative metabolism is required for the cardiac differentiation of stem cells. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, S60-S67.	3.3	438
7	Phosphotransfer networks and cellular energetics. Journal of Experimental Biology, 2003, 206, 2039-2047.	1.7	432
8	Cardiopoietic Stem Cell Therapy in Heart Failure. Journal of the American College of Cardiology, 2013, 61, 2329-2338.	2.8	427
9	ABCC9 mutations identified in human dilated cardiomyopathy disrupt catalytic KATP channel gating. Nature Genetics, 2004, 36, 382-387.	21.4	342
10	Adenylate Kinase and AMP Signaling Networks: Metabolic Monitoring, Signal Communication and Body Energy Sensing. International Journal of Molecular Sciences, 2009, 10, 1729-1772.	4.1	342
11	Sulfonylurea drugs increase early mortality in patients with diabetes mellitus after direct angioplasty for acute myocardial infarction. Journal of the American College of Cardiology, 1999, 33, 119-124.	2.8	324
12	ATP-sensitive K+channel openers prevent Ca2+overload in rat cardiac mitochondria. Journal of Physiology, 1999, 519, 347-360.	2.9	323
13	Kir6.2 is required for adaptation to stress. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13278-13283.	7.1	279
14	Cell therapy for cardiac repairâ€"lessons from clinical trials. Nature Reviews Cardiology, 2014, 11, 232-246.	13.7	261
15	Guided Cardiopoiesis Enhances Therapeutic Benefit of Bone Marrow Human Mesenchymal Stem Cells in Chronic Myocardial Infarction. Journal of the American College of Cardiology, 2010, 56, 721-734.	2.8	247
16	Cardiopoietic programming of embryonic stem cells for tumor-free heart repair. Journal of Experimental Medicine, 2007, 204, 405-420.	8.5	229
17	Increased expression of BubR1 protects against aneuploidy and cancer and extends healthy lifespan. Nature Cell Biology, 2013, 15, 96-102.	10.3	229
18	Stable benefit of embryonic stem cell therapy in myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H471-H479.	3.2	212

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19	Cardiac system bioenergetics: metabolic basis of the Frank-Starling law. Journal of Physiology, 2006, 571, 253-273.	2.9	212
20	Mitochondrial ATP-sensitive K+ channels modulate cardiac mitochondrial function. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 275, H1567-H1576.	3.2	207
21	Platelet Lysate Consisting of a Natural Repair Proteome Supports Human Mesenchymal Stem Cell Proliferation and Chromosomal Stability. Cell Transplantation, 2011, 20, 797-812.	2.5	194
22	Age-Related Accumulation of Somatic Mitochondrial DNA Mutations in Adult-Derived Human iPSCs. Cell Stem Cell, 2016, 18, 625-636.	11.1	190
23	Adenylate Kinaseâ€"Catalyzed Phosphotransfer in the Myocardium. Circulation Research, 1999, 84, 1137-1143.	4.5	189
24	Signaling in Channel/Enzyme Multimers. Neuron, 2001, 31, 233-245.	8.1	183
25	Cardiac K channels in health and disease. Journal of Molecular and Cellular Cardiology, 2005, 38, 937-943.	1.9	179
26	Functionalized Carbon Nanotube and Graphene Oxide Embedded Electrically Conductive Hydrogel Synergistically Stimulates Nerve Cell Differentiation. ACS Applied Materials & Interfaces, 2017, 9, 14677-14690.	8.0	179
27	Potassium channel openers protect cardiac mitochondria by attenuating oxidant stress at reoxygenation. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H531-H539.	3.2	177
28	Metabolic rescue in pluripotent cells from patients with mtDNA disease. Nature, 2015, 524, 234-238.	27.8	166
29	1Î±,25-Dihydroxyvitamin D3 Regulates Mitochondrial Oxygen Consumption and Dynamics in Human Skeletal Muscle Cells. Journal of Biological Chemistry, 2016, 291, 1514-1528.	3.4	164
30	KATP channel mutation confers risk for vein of Marshall adrenergic atrial fibrillation. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, 110-116.	3.3	159
31	Induced Pluripotent Stem Cells for Cardiovascular Disease Modeling and Precision Medicine: A Scientific Statement From the American Heart Association. Circulation Genomic and Precision Medicine, 2018, 11, e000043.	3.6	159
32	The Sulfonylurea Controversy: More Questions From the Heart 11This study was supported by a Clinician-Investigator Fellowship from General Mills, Rochester, Minnesota; by the American Heart Association, Minnesota Affiliate, Minneapolis; by the Miami Heart Research Institute, Miami, Florida; and by the Bruce and Ruth Rappaport Program in Vascular Biology and Gene Delivery, Geneva, Switzerland.. Journal of the American College of Cardiology, 1998, 31, 950-956.	2.8	150
33	Glycolytic network restructuring integral to the energetics of embryonic stem cell cardiac differentiation. Journal of Molecular and Cellular Cardiology, 2010, 48, 725-734.	1.9	148
34	Cardiopoietic cell therapy for advanced ischemic heart failure: results at 39 weeks of the prospective, randomized, double blind, sham-controlled CHART-1 clinical trial. European Heart Journal, 2017, 38, ehw543.	2.2	148
35	Phosphotransfer reactions in the regulation of ATPâ€sensitive K⁺channels. FASEB Journal, 1998, 12, 523-529.	0.5	146
36	Energetic communication between mitochondria and nucleus directed by catalyzed phosphotransfer. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10156-10161.	7.1	143

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37	Transformative Impact of Proteomics on Cardiovascular Health and Disease. Circulation, 2015, 132, 852-872.	1.6	140
38	Coupling of Cell Energetics with Membrane Metabolic Sensing. Journal of Biological Chemistry, 2002, 277, 24427-24434.	3.4	134
39	Cardiac Cell Repair Therapy: A Clinical Perspective. Mayo Clinic Proceedings, 2009, 84, 876-892.	3.0	134
40	Global position paper on cardiovascular regenerative medicine. European Heart Journal, 2017, 38, 2532-2546.	2.2	133
41	ATPase activity of the sulfonylurea receptor: a catalytic function for the KATPchannel complex. FASEB Journal, 2000, 14, 1943-1952.	0.5	131
42	K channel therapeutics at the bedside. Journal of Molecular and Cellular Cardiology, 2005, 39, 99-112.	1.9	125
43	Aging-induced alterations in gene transcripts and functional activity of mitochondrial oxidative phosphorylation complexes in the heart. Mechanisms of Ageing and Development, 2008, 129, 304-312.	4.6	125
44	Induced pluripotent stem cells: developmental biology to regenerative medicine. Nature Reviews Cardiology, 2010, 7, 700-710.	13.7	125
45	Recombinant Cardiac ATP-Sensitive K + Channel Subunits Confer Resistance To Chemical Hypoxia-Reoxygenation Injury. Circulation, 1998, 98, 1548-1555.	1.6	115
46	Chronic Diseases: The Emerging Pandemic. Clinical and Translational Science, 2011, 4, 225-226.	3.1	115
47	ABCC9 is a novel Brugada and early repolarization syndrome susceptibility gene. International Journal of Cardiology, 2014, 171, 431-442.	1.7	113
48	Knockout of Kir6.2 negates ischemic preconditioning-induced protection of myocardial energetics. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H2106-H2113.	3.2	112
49	Disease-Causing Mitochondrial Heteroplasmy Segregated Within Induced Pluripotent Stem Cell Clones Derived from a Patient with MELAS. Stem Cells, 2013, 31, 1298-1308.	3.2	112
50	CXCR4+/FLK-1+ Biomarkers Select a Cardiopoietic Lineage from Embryonic Stem Cells. Stem Cells, 2008, 26, 1464-1473.	3.2	105
51	Protection conferred by myocardial ATP-sensitive K+channels in pressure overload-induced congestive heart failure revealed inKCNJ11Kir6.2-null mutant. Journal of Physiology, 2006, 577, 1053-1065.	2.9	102
52	Two-Dimensional Black Phosphorus and Graphene Oxide Nanosheets Synergistically Enhance Cell Proliferation and Osteogenesis on 3D Printed Scaffolds. ACS Applied Materials & Interfaces, 2019, 11, 23558-23572.	8.0	101
53	Human KATP channelopathies: diseases of metabolic homeostasis. Pflugers Archiv European Journal of Physiology, 2010, 460, 295-306.	2.8	100
54	Genetics and Genomics for the Prevention and Treatment of Cardiovascular Disease: Update. Circulation, 2013, 128, 2813-2851.	1.6	100

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55	iPS Programmed Without c-MYC Yield Proficient Cardiogenesis for Functional Heart Chimerism. Circulation Research, 2009, 105, 648-656.	4.5	99
56	KCNJ11 gene knockout of the Kir6.2 K ATP channel causes maladaptive remodeling and heart failure in hypertension. Human Molecular Genetics, 2006, 15, 2285-2297.	2.9	98
57	Energy metabolism in the acquisition and maintenance of stemness. Seminars in Cell and Developmental Biology, 2016, 52, 68-75.	5.0	97
58	Inositol 1,4,5-Trisphosphate Directs Ca²⁺Flow between Mitochondria and the Endoplasmic/Sarcoplasmic Reticulum: A Role in Regulating Cardiac Autonomic Ca²⁺Spiking. Molecular Biology of the Cell, 2000, 11, 1845-1858.	2.1	96
59	Increased calcium vulnerability of senescent cardiac mitochondria: protective role for a mitochondrial potassium channel opener. Mechanisms of Ageing and Development, 2001, 122, 1073-1086.	4.6	95
60	Targeting nucleotide-requiring enzymes: implications for diazoxide-induced cardioprotection. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1048-H1056.	3.2	92
61	Failing energetics in failing hearts. Current Cardiology Reports, 2000, 2, 212-217.	2.9	91
62	Cellular Energetics in the Preconditioned State. Journal of Biological Chemistry, 2001, 276, 44812-44819.	3.4	91
63	Failing atrial myocardium: energetic deficits accompany structural remodeling and electrical instability. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1313-H1320.	3.2	90
64	ATP-Sensitive K+ Channel Knockout Compromises the Metabolic Benefit of Exercise Training, Resulting in Cardiac Deficits. Diabetes, 2004, 53, S169-S175.	0.6	89
65	Benefit of cardiopoietic mesenchymal stem cell therapy on left ventricular remodelling: results from the Congestive Heart Failure Cardiopoietic Regenerative Therapy (CHARTâ€1) study. European Journal of Heart Failure, 2017, 19, 1520-1529.	7.1	89
66	Decreased Osteogenic Activity of Mesenchymal Stem Cells in Patients With Corticosteroid-Induced Osteonecrosis of the Femoral Head. Journal of Arthroplasty, 2016, 31, 893-898.	3.1	87
67	Mitochondria in Control of Cell Fate. Circulation Research, 2012, 110, 526-529.	4.5	86
68	Physical Association Between Recombinant Cardiac ATP-sensitive K+Channel Subunits Kir6.2 and SUR2A. Journal of Molecular and Cellular Cardiology, 1999, 31, 425-434.	1.9	85
69	Cellular remodeling in heart failure disrupts KATP channel-dependent stress tolerance. EMBO Journal, 2003, 22, 1732-1742.	7.8	85
70	Microtubule destabilization and nuclear entry are sequential steps leading to toxicity in Huntington's disease. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12171-12176.	7.1	85
71	ATP-sensitive K channel channel/enzyme multimer: Metabolic gating in the heart. Journal of Molecular and Cellular Cardiology, 2005, 38, 895-905.	1.9	85
72	Potassium channel openers prevent potassium-induced calcium loading of cardiac cells: Possible implications in cardioplegia. Journal of Thoracic and Cardiovascular Surgery, 1996, 112, 820-831.	0.8	84

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73	Nucleotide-gated KATPchannels integrated with creatine and adenylate kinases: Amplification, tuning and sensing of energetic signals in the compartmentalized cellular environment. Molecular and Cellular Biochemistry, 2004, 256, 243-256.	3.1	83
74	Energy metabolism plasticity enables stemness programs. Annals of the New York Academy of Sciences, 2012, 1254, 82-89.	3.8	83
75	G proteins activate ATP-sensitive K+ channels by antagonizing ATP-dependent gating. Neuron, 1994, 12, 885-893.	8.1	82
76	Potassium channel openers are uncoupling protonophores: implication in cardioprotection. FEBS Letters, 2004, 568, 167-170.	2.8	82
77	Reprogrammed keratinocytes from elderly type 2 diabetes patients suppress senescence genes to acquire induced pluripotency. Aging, 2012, 4, 60-73.	3.1	81
78	Evidence for Direct Physical Association between a K⁺Channel (Kir6.2) and an ATP-Binding Cassette Protein (SUR1) Which Affects Cellular Distribution and Kinetic Behavior of an ATP-Sensitive K⁺ Channel. Molecular and Cellular Biology, 1998, 18, 1652-1659.	2.3	79
79	Guided stem cell cardiopoiesis: Discovery and translation. Journal of Molecular and Cellular Cardiology, 2008, 45, 523-529.	1.9	79
80	Stem Cell Platforms for Regenerative Medicine. Clinical and Translational Science, 2009, 2, 222-227.	3.1	79
81	Diazoxide protects mitochondria from anoxic injury: Implications for myopreservation. Journal of Thoracic and Cardiovascular Surgery, 2001, 121, 298-306.	0.8	78
82	Aging and cardioprotection. Journal of Applied Physiology, 2007, 103, 2120-2128.	2.5	78
83	Channelopathies of inwardly rectifying potassium channels. FASEB Journal, 1999, 13, 1901-1910.	0.5	77
84	Tandem Function of Nucleotide Binding Domains Confers Competence to Sulfonylurea Receptor in Gating ATP-sensitive K+ Channels. Journal of Biological Chemistry, 2002, 277, 14206-14210.	3.4	77
85	Congestive Heart Failure Cardiopoietic Regenerative Therapy (<scp>CHART</scp>â€1) trial design. European Journal of Heart Failure, 2016, 18, 160-168.	7.1	77
86	Compromised Energetics in the Adenylate Kinase AK1Gene Knockout Heart under Metabolic Stress. Journal of Biological Chemistry, 2000, 275, 41424-41429.	3.4	75
87	Transcriptome from circulating cells suggests dysregulated pathways associated with long-term recurrent events following first-time myocardial infarction. Journal of Molecular and Cellular Cardiology, 2014, 74, 13-21.	1.9	73
88	Effective nerve cell modulation by electrical stimulation of carbon nanotube embedded conductive polymeric scaffolds. Biomaterials Science, 2018, 6, 2375-2385.	5.4	73
89	Gene knockout of the KCNJ8â€encoded Kir6.1 K ATP channel imparts fatal susceptibility to endotoxemia. FASEB Journal, 2006, 20, 2271-2280.	0.5	71
90	Embryonic Stem Cell Therapy of Heart Failure in Genetic Cardiomyopathy. Stem Cells, 2008, 26, 2644-2653.	3.2	71

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91	Strategies for Therapeutic Repair: The â€œR³â€•Regenerative Medicine Paradigm. Clinical and Translational Science, 2008, 1, 168-171.	3.1	71
92	Suppression of human tumor cell proliferation through mitochondrial targeting. FASEB Journal, 2002, 16, 1010-1016.	0.5	70
93	Dualistic behavior of ATP-sensitive K+ channels toward intracellular nucleoside diphosphates. Neuron, 1994, 12, 1049-1058.	8.1	69
94	Ligand-insensitive State of Cardiac ATP-sensitive K+ Channels. Journal of General Physiology, 1998, 111, 381-394.	1.9	69
95	3D-printed scaffolds with carbon nanotubes for bone tissue engineering: Fast and homogeneous one-step functionalization. Acta Biomaterialia, 2020, 111, 129-140.	8.3	69
96	Genetic Disruption of Kir6.2, the Pore-Forming Subunit of ATP-Sensitive K+ Channel, Predisposes to Catecholamine-Induced Ventricular Dysrhythmia. Diabetes, 2004, 53, S165-S168.	0.6	68
97	Cardioinductive Network Guiding Stem Cell Differentiation Revealed by Proteomic Cartography of Tumor Necrosis Factor Î±-Primed Endodermal Secretome. Stem Cells, 2008, 26, 387-400.	3.2	68
98	Derivation of a cardiopoietic population from human mesenchymal stem cells yields cardiac progeny. Nature Clinical Practice Cardiovascular Medicine, 2006, 3, S78-S82.	3.3	67
99	Genomic chart guiding embryonic stem cell cardiopoiesis. Genome Biology, 2008, 9, R6.	9.6	66
100	Progenitor Cell Therapy in a Porcine Acute Myocardial Infarction Model Induces Cardiac Hypertrophy, Mediated by Paracrine Secretion of Cardiotrophic Factors Including TGFÎ²1. Stem Cells and Development, 2008, 17, 941-952.	2.1	66
101	CELLTOP Clinical Trial: First Report From a Phase 1 Trial of Autologous Adipose Tissueâ€“Derived Mesenchymal Stem Cells in the Treatment of Paralysis Due to Traumatic Spinal Cord Injury. Mayo Clinic Proceedings, 2020, 95, 406-414.	3.0	66
102	Low concentrations of 17Î²-estradiol protect single cardiac cells against metabolic stress-induced Ca2+ loading. Journal of the American College of Cardiology, 2000, 36, 948-952.	2.8	64
103	Phosphotransfer dynamics in skeletal muscle from creatine kinase gene-deleted mice. Molecular and Cellular Biochemistry, 2004, 256, 13-27.	3.1	64
104	Covalent crosslinking of graphene oxide and carbon nanotube into hydrogels enhances nerve cell responses. Journal of Materials Chemistry B, 2016, 4, 6930-6941.	5.8	63
105	Gene delivery of Kir6.2/SUR2A in conjunction with pinacidil handles intracellular Ca 2+ homeostasis under metabolic stress. FASEB Journal, 1999, 13, 923-929.	0.5	62
106	Structural Adaptation of the Nuclear Pore Complex in Stem Cellâ€“Derived Cardiomyocytes. Circulation Research, 2003, 92, 444-452.	4.5	62
107	Stem cell therapy for heart failure: Ensuring regenerative proficiency. Trends in Cardiovascular Medicine, 2016, 26, 395-404.	4.9	62
108	c-MYC-Independent Nuclear Reprogramming Favors Cardiogenic Potential of Induced Pluripotent Stem Cells. Journal of Cardiovascular Translational Research, 2010, 3, 13-23.	2.4	61

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109	Sarcolemmal ATP-Sensitive K+ Channels Control Energy Expenditure Determining Body Weight. Cell Metabolism, 2010, 11, 58-69.	16.2	61
110	TGF-Î² loaded exosome enhances ischemic wound healing <i>in vitro</i> and <i>in vivo</i>. Theranostics, 2021, 11, 6616-6631.	10.0	61
111	Clinical and Translational Science: From Benchâ€Bedside to Global Village. Clinical and Translational Science, 2010, 3, 254-257.	3.1	60
112	Human pre-valvular endocardial cells derived from pluripotent stem cells recapitulate cardiac pathophysiological valvulogenesis. Nature Communications, 2019, 10, 1929.	12.8	60
113	Impaired Intracellular Energetic Communication in Muscles from Creatine Kinase and Adenylate Kinase (M-CK/AK1) Double Knock-out Mice. Journal of Biological Chemistry, 2003, 278, 30441-30449.	3.4	59
114	Reversal of the ATP-liganded State of ATP-sensitive K+ Channels by Adenylate Kinase Activity. Journal of Biological Chemistry, 1996, 271, 31903-31908.	3.4	58
115	Metabolic determinants of embryonic development and stem cell fate. Reproduction, Fertility and Development, 2015, 27, 82.	0.4	58
116	Developmental Enhancement of Adenylate Kinase-AMPK Metabolic Signaling Axis Supports Stem Cell Cardiac Differentiation. PLoS ONE, 2011, 6, e19300.	2.5	56
117	Transgenic overexpression of human DMPK accumulates into hypertrophic cardiomyopathy, myotonic myopathy and hypotension traits of myotonic dystrophy. Human Molecular Genetics, 2004, 13, 2505-2518.	2.9	55
118	Cardiac Resynchronization Therapy Induces Adaptive Metabolic Transitions in the Metabolomic Profile of Heart Failure. Journal of Cardiac Failure, 2015, 21, 460-469.	1.7	55
119	Longevity leap: mind the healthspan gap. Npj Regenerative Medicine, 2021, 6, 57.	5.2	55
120	Structural Plasticity of the Cardiac Nuclear Pore Complex in Response to Regulators of Nuclear Import. Circulation Research, 1999, 84, 1292-1301.	4.5	54
121	Stable transfection of UCP1 confers resistance to hypoxia/reoxygenation in a heart-derived cell line. Journal of Molecular and Cellular Cardiology, 2003, 35, 861-865.	1.9	54
122	KATP channel knockout worsens myocardial calcium stress load in vivo and impairs recovery in stunned heart. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1706-H1713.	3.2	54
123	Metabolic Regulation of Redox Status in Stem Cells. Antioxidants and Redox Signaling, 2014, 21, 1648-1659.	5.4	54
124	Regenerative Medicine Build-Out. Stem Cells Translational Medicine, 2015, 4, 1373-1379.	3.3	54
125	Cardiac cell repair therapy: a clinical perspective. Mayo Clinic Proceedings, 2009, 84, 876-92.	3.0	54
126	Intracellular diadenosine polyphosphates. Biochemical Pharmacology, 1997, 54, 219-225.	4.4	53

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127	Stem cells transform into a cardiac phenotype with remodeling of the nuclear transport machinery. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, S68-S76.	3.3	53
128	Adenylate kinase AK1 knockout heart: energetics and functional performance under ischemia-reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H776-H782.	3.2	52
129	Energy metabolism in nuclear reprogramming. Biomarkers in Medicine, 2011, 5, 715-729.	1.4	49
130	Reduced activity of enzymes coupling ATP-generating with ATP-consuming processes in the failing myocardium. Molecular and Cellular Biochemistry, 1999, 201, 33-40.	3.1	48
131	Cardiac Subsarcolemmal and Interfibrillar Mitochondria Display Distinct Responsiveness to Protection by Diazoxide. PLoS ONE, 2012, 7, e44667.	2.5	48
132	Nuclear Reprogramming with c-Myc Potentiates Glycolytic Capacity of Derived Induced Pluripotent Stem Cells. Journal of Cardiovascular Translational Research, 2013, 6, 10-21.	2.4	48
133	Transcriptional atlas of cardiogenesis maps congenital heart disease interactome. Physiological Genomics, 2014, 46, 482-495.	2.3	47
134	Adipose-derived Mesenchymal Stem Cells Are Phenotypically Superior for Regeneration in the Setting of Osteonecrosis of the Femoral Head. Clinical Orthopaedics and Related Research, 2015, 473, 3080-3090.	1.5	47
135	Defective Metabolic Signaling in Adenylate Kinase AK1 Gene Knock-out Hearts Compromises Post-ischemic Coronary Reflow. Journal of Biological Chemistry, 2007, 282, 31366-31372.	3.4	46
136	Regenerative Medicine Primer. Mayo Clinic Proceedings, 2013, 88, 766-775.	3.0	46
137	Adenosine Prevents Hyperkalemia-Induced Calcium Loading in Cardiac Cells: Relevance for Cardioplegia. Annals of Thoracic Surgery, 1997, 63, 153-161.	1.3	45
138	Mitochondria. Circulation Research, 2001, 89, 744-746.	4.5	44
139	Cells as biologics for cardiac repair in ischaemic heart failure. Heart, 2010, 96, 792-800.	2.9	42
140	Optimized Delivery System Achieves Enhanced Endomyocardial Stem Cell Retention. Circulation: Cardiovascular Interventions, 2013, 6, 710-718.	3.9	41
141	Mitochondria in pluripotent stem cells: stemness regulators and disease targets. Current Opinion in Genetics and Development, 2016, 38, 1-7.	3.3	41
142	Diadenosine 5â€²,5â€³-P1,P5-pentaphosphate harbors the properties of a signaling molecule in the heart. FEBS Letters, 1998, 423, 314-318.	2.8	40
143	Mapping hypoxia-induced bioenergetic rearrangements and metabolic signaling by18O-assisted31P NMR and1H NMR spectroscopy. Molecular and Cellular Biochemistry, 2004, 256, 281-289.	3.1	39
144	Adenylate Kinase and Metabolic Signaling in Cancer Cells. Frontiers in Oncology, 2020, 10, 660.	2.8	39

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145	Compartmentation of membrane processes and nucleotide dynamics in diffusion-restricted cardiac cell microenvironment. Journal of Molecular and Cellular Cardiology, 2012, 52, 401-409.	1.9	38
146	Regulation of Nitric Oxide-Responsive Recombinant Soluble Guanylyl Cyclase by Calcium. Biochemistry, 1999, 38, 6441-6448.	2.5	37
147	Developmental Restructuring of the Creatine Kinase System Integrates Mitochondrial Energetics with Stem Cell Cardiogenesis. Annals of the New York Academy of Sciences, 2008, 1147, 254-263.	3.8	37
148	Induced pluripotent stem cell intervention rescues ventricular wall motion disparity, achieving biological cardiac resynchronization postâ€infarction. Journal of Physiology, 2013, 591, 4335-4349.	2.9	37
149	Proteomic profiling of K_{ATP} channelâ€deficient hypertensive heart maps risk for maladaptive cardiomyopathic outcome. Proteomics, 2009, 9, 1314-1325.	2.2	36
150	Apoptotic Susceptibility to DNA Damage of Pluripotent Stem Cells Facilitates Pharmacologic Purging of Teratoma Risk. Stem Cells Translational Medicine, 2012, 1, 709-718.	3.3	36
151	Lipid Metabolism Greases the Stem Cell Engine. Cell Metabolism, 2013, 17, 153-155.	16.2	35
152	Regenerative heart failure therapy headed for optimization. European Heart Journal, 2014, 35, 1231-1234.	2.2	35
153	Dual effect of glyburide, an antagonist of KATP channels, on metabolic inhibition-induced Ca2+ loading in cardiomyocytes. European Journal of Pharmacology, 1996, 308, 343-349.	3.5	34
154	Administration of Allogenic Stem Cells Dosed to Secure Cardiogenesis and Sustained Infarct Repair. Annals of the New York Academy of Sciences, 2005, 1049, 189-198.	3.8	34
155	Dynamic phosphometabolomic profiling of human tissues and transgenic models by¹⁸O-assisted³¹P NMR and mass spectrometry. Physiological Genomics, 2012, 44, 386-402.	2.3	34
156	ATP-Sensitive K⁺ Channel Knockout Induces Cardiac Proteome Remodeling Predictive of Heart Disease Susceptibility. Journal of Proteome Research, 2009, 8, 4823-4834.	3.7	33
157	Enhanced nerve cell proliferation and differentiation on electrically conductive scaffolds embedded with graphene and carbon nanotubes. Journal of Biomedical Materials Research - Part A, 2021, 109, 193-206.	4.0	33
158	Restoration of Ca2+-inhibited oxidative phosphorylation in cardiac mitochondria by mitochondrial Ca2+ unloading. Molecular and Cellular Biochemistry, 2001, 220, 135-140.	3.1	32
159	Deletion of mtDNA disrupts mitochondrial function and structure, but not biogenesis. Mitochondrion, 2003, 3, 13-19.	3.4	32
160	Induced Pluripotent Reprogramming from Promiscuous Human Stemnessâ€Related Factors. Clinical and Translational Science, 2009, 2, 118-126.	3.1	32
161	Operative Conditionâ€"Dependent Response of Cardiac ATP-Sensitive K + Channels Toward Sulfonylureas. Circulation Research, 1998, 82, 272-278.	4.5	31
162	Reciprocal regulation of expression of pore-forming KATP channel genes by hypoxia. Molecular and Cellular Biochemistry, 2001, 225, 145-150.	3.1	31

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163	Directed Inhibition of Nuclear Import in Cellular Hypertrophy. Journal of Biological Chemistry, 2001, 276, 20566-20571.	3.4	31
164	Metabolome and metaboproteome remodeling in nuclear reprogramming. Cell Cycle, 2013, 12, 2355-2365.	2.6	31
165	Tumor-Free Transplantation of Patient-Derived Induced Pluripotent Stem Cell Progeny for Customized Islet Regeneration. Stem Cells Translational Medicine, 2016, 5, 694-702.	3.3	31
166	Interaction of Asymmetric ABCC9-Encoded Nucleotide Binding Domains Determines KATP Channel SUR2A Catalytic Activity. Journal of Proteome Research, 2008, 7, 1721-1728.	3.7	30
167	KATP channel Kir6.2 E23K variant overrepresented in human heart failure is associated with impaired exercise stress response. Human Genetics, 2009, 126, 779-789.	3.8	29
168	Human umbilical cord blood-derived mononuclear cells improve murine ventricular function upon intramyocardial delivery in right ventricular chronic pressure overload. Stem Cell Research and Therapy, 2015, 6, 50.	5.5	29
169	Regenerative medicine curriculum for next-generation physicians. Npj Regenerative Medicine, 2019, 4, 3.	5.2	29
170	Patient-specific genomics and cross-species functional analysis implicate LRP2 in hypoplastic left heart syndrome. ELife, 2020, 9, .	6.0	29
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