Chuanxi Cai

List of Publications by Year
in descending order

38 papers	1,657 citations	430874 18 h-index	414414 32 g-index
40 all docs	40 docs citations	40 times ranked	1865 citing authors

#	Article	IF	Citations
1	MG53 nucleates assembly of cell membrane repair machinery. Nature Cell Biology, 2009, 11, 56-64.	10.3	396
2	Membrane Repair Defects in Muscular Dystrophy Are Linked to Altered Interaction between MG53, Caveolin-3, and Dysferlin. Journal of Biological Chemistry, 2009, 284, 15894-15902.	3.4	227
3	Recombinant MG53 Protein Modulates Therapeutic Cell Membrane Repair in Treatment of Muscular Dystrophy. Science Translational Medicine, 2012, 4, 139ra85.	12.4	165
4	MG53 Regulates Membrane Budding and Exocytosis in Muscle Cells. Journal of Biological Chemistry, 2009, 284, 3314-3322.	3.4	99
5	The Heme Oxygenase 1 Inducer (CoPP) Protects Human Cardiac Stem Cells against Apoptosis through Activation of the Extracellular Signal-regulated Kinase (ERK)/NRF2 Signaling Pathway and Cytokine Release. Journal of Biological Chemistry, 2012, 287, 33720-33732.	3.4	89
6	Enhancing Muscle Membrane Repair by Gene Delivery of MG53 Ameliorates Muscular Dystrophy and Heart Failure in Î´-Sarcoglycan-deficient Hamsters. Molecular Therapy, 2012, 20, 727-735.	8.2	82
7	Nonmuscle myosin IIA facilitates vesicle trafficking for MG53â€mediated cell membrane repair. FASEB Journal, 2012, 26, 1875-1883.	0.5	64
8	A safe and highly efficacious measles virus-based vaccine expressing SARS-CoV-2 stabilized prefusion spike. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	48
9	The Presenilin-2 Loop Peptide Perturbs Intracellular Ca2+ Homeostasis and Accelerates Apoptosis. Journal of Biological Chemistry, 2006, 281, 16649-16655.	3.4	40
10	Preconditioning Human Cardiac Stem Cells with an HO-1 Inducer Exerts Beneficial Effects After Cell Transplantation in the Infarcted Murine Heart. Stem Cells, 2015, 33, 3596-3607.	3.2	39
11	MG53 Does Not Manifest the Development of Diabetes in db/db Mice. Diabetes, 2020, 69, 1052-1064.	0.6	36
12	Sulfiredoxin-1 enhances cardiac progenitor cell survival against oxidative stress via the upregulation of the ERK/NRF2 signal pathway. Free Radical Biology and Medicine, 2018, 123, 8-19.	2.9	33
13	MG53 suppresses interferon-Î² and inflammation via regulation of ryanodine receptor-mediated intracellular calcium signaling. Nature Communications, 2020, 11, 3624.	12.8	32
14	Zinc Binding to MG53 Protein Facilitates Repair of Injury to Cell Membranes. Journal of Biological Chemistry, 2015, 290, 13830-13839.	3.4	31
15	Cytoglobin Promotes Cardiac Progenitor Cell Survival against Oxidative Stress via the Upregulation of the NFÎºB/iNOS Signal Pathway and Nitric Oxide Production. Scientific Reports, 2017, 7, 10754.	3.3	30
16	Mitsugumin 53 regulates extracellular Ca2+ entry and intracellular Ca2+ release via Orai1 and RyR1 in skeletal muscle. Scientific Reports, 2016, 6, 36909.	3.3	24
17	Preconditioning c-Kit-positive Human Cardiac Stem Cells with a Nitric Oxide Donor Enhances Cell Survival through Activation of Survival Signaling Pathways. Journal of Biological Chemistry, 2016, 291, 9733-9747.	3.4	21
18	Inhibition of p16INK4A to Rejuvenate Aging Human Cardiac Progenitor Cells via the Upregulation of Anti-oxidant and NFÎºB Signal Pathways. Stem Cell Reviews and Reports, 2018, 14, 612-625.	5.6	21

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19	Human Cardiac Progenitor Cells Enhance Exosome Release and Promote Angiogenesis Under Physoxia. Frontiers in Cell and Developmental Biology, 2020, 8, 130.	3.7	21
20	The amino-terminal peptide of Bax perturbs intracellular Ca²⁺homeostasis to enhance apoptosis in prostate cancer cells. American Journal of Physiology - Cell Physiology, 2009, 296, C267-C272.	4.6	17
21	MG53 suppresses NF-Î²B activation to mitigate age-related heart failure. JCI Insight, 2021, 6, .	5.0	17
22	Caveolae/Caveolin-1 Are Important Modulators of Store-Operated Calcium Entry in Hs578/T Breast Cancer Cells. Journal of Pharmacological Sciences, 2008, 106, 287-294.	2.5	15
23	Strategies to Enhance the Effectiveness of Adult Stem Cell Therapy for Ischemic Heart Diseases Affecting the Elderly Patients. Stem Cell Reviews and Reports, 2016, 12, 214-223.	5.6	15
24	Recombinant MG53 Protein Protects Mice from Lethal Influenza Virus Infection. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 254-257.	5.6	15
25	Current Progress in the Rejuvenation of Aging Stem/Progenitor Cells for Improving the Therapeutic Effectiveness of Myocardial Repair. Stem Cells International, 2018, 2018, 1-9.	2.5	13
26	Cardiac effects and clinical applications of MG53. Cell and Bioscience, 2021, 11, 115.	4.8	13
27	A Methyltransferase-Defective Vesicular Stomatitis Virus-Based SARS-CoV-2 Vaccine Candidate Provides Complete Protection against SARS-CoV-2 Infection in Hamsters. Journal of Virology, 2021, 95, e0059221.	3.4	11
28	Influenza virus replication in cardiomyocytes drives heart dysfunction and fibrosis. Science Advances, 2022, 8, eabm5371.	10.3	11
29	MG53 as a Novel Therapeutic Protein to Treat Acute Lung Injury. Military Medicine, 2021, 186, 339-345.	0.8	9
30	MG53 Nucleates Assembly Of Cell Membrane Repair Machinery. Biophysical Journal, 2009, 96, 361a.	0.5	6
31	MG53 attenuates nitrogen mustardâ€induced acute lung injury. Journal of Cellular and Molecular Medicine, 2022, 26, 1886-1895.	3.6	5
32	Mitochondrial Membrane Potential Identifies a Subpopulation of Mesenchymal Progenitor Cells to Promote Angiogenesis and Myocardial Repair. Cells, 2022, 11, 1713.	4.1	4
33	The Amino-terminal Peptide Of Bax Perturbs Intracellular Ca2+ Homeostasis To Enhance Apoptosis In Prostate Cancer Cells. Biophysical Journal, 2009, 96, 424a.	0.5	0
34	Leucine-Zipper Mediated Intermolecular Interaction between MG53 is Essential for Cellular Membrane Repair. Biophysical Journal, 2010, 98, 153a.	0.5	0
35	Non-Muscle Myosin IIA Facilitates Vesicle Trafficking for MG53-Mediated Cell Membrane Repair. Biophysical Journal, 2011, 100, 446a.	0.5	0
36	Recombinant MG53 Protein can Increase Membrane Repair Capacity andÂImprove Pathology in Dystrophic Mouse Muscle. Biophysical Journal, 2012, 102, 720a.	0.5	0

#	Article	IF	Citations
37	Zinc Binding to MG53 Facilitates Repair of Injury to Cell Membrane. Biophysical Journal, 2016, 110, 589a.	0.5	0
38	Mitsugumin 53 Regulates Extracellular Ca 2+ Entry and Intracellular CA 2+ Release via Orai1 and RyR1 in Skeletal Muscle. Biophysical Journal, 2017, 112, 98a.	0.5	0