

# Hua Zhu

## List of Publications by Citations

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116  
papers

7,821  
citations

32  
h-index

88  
g-index

128  
ext. papers

9,131  
ext. citations

6.3  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
116	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
115	Role of MicroRNA miR-27a and miR-451 in the regulation of MDR1/P-glycoprotein expression in human cancer cells. <i>Biochemical Pharmacology</i> , <b>2008</b> , 76, 582-8	6	377
114	Regulation of autophagy by a beclin 1-targeted microRNA, miR-30a, in cancer cells. <i>Autophagy</i> , <b>2009</b> , 5, 816-23	10.2	369
113	Inhibition of cyclooxygenase 2 blocks human cytomegalovirus replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 3932-7	11.5	197
112	CRISPR-mediated Genome Editing Restores Dystrophin Expression and Function in mdx Mice. <i>Molecular Therapy</i> , <b>2016</b> , 24, 564-9	11.7	163
111	Recombinant MG53 protein modulates therapeutic cell membrane repair in treatment of muscular dystrophy. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 139ra85	17.5	128
110	Regulation of multidrug resistance by microRNAs in anti-cancer therapy. <i>Acta Pharmaceutica Sinica B</i> , <b>2017</b> , 7, 38-51	15.5	121
109	MG53-induced IRS-1 ubiquitination negatively regulates skeletal myogenesis and insulin signalling. <i>Nature Communications</i> , <b>2013</b> , 4, 2354	17.4	102
108	Elevated Orai1 expression mediates tumor-promoting intracellular Ca <sup>2+</sup> oscillations in human esophageal squamous cell carcinoma. <i>Oncotarget</i> , <b>2014</b> , 5, 3455-71	3.3	101
107	MiRNA-30a-mediated autophagy inhibition sensitizes renal cell carcinoma cells to sorafenib. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 459, 234-239	3.4	100
106	Irisin protects mitochondria function during pulmonary ischemia/reperfusion injury. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	87
105	A Bioinspired Alginate-Gum Arabic Hydrogel with Micro-/Nanoscale Structures for Controlled Drug Release in Chronic Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22160-22175	9.5	81
104	Silencing of elongation factor-2 kinase potentiates the effect of 2-deoxy-D-glucose against human glioma cells through blunting of autophagy. <i>Cancer Research</i> , <b>2009</b> , 69, 2453-60	10.1	81
103	Polymerase transcriptase release factor (PTRF) anchors MG53 protein to cell injury site for initiation of membrane repair. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 12820-4	5.4	73
102	Regulation of autophagy by miR-30d impacts sensitivity of anaplastic thyroid carcinoma to cisplatin. <i>Biochemical Pharmacology</i> , <b>2014</b> , 87, 562-70	6	72
101	Enhancing muscle membrane repair by gene delivery of MG53 ameliorates muscular dystrophy and heart failure in $\beta$ -Barcoglycan-deficient hamsters. <i>Molecular Therapy</i> , <b>2012</b> , 20, 727-35	11.7	72
100	MG53-mediated cell membrane repair protects against acute kidney injury. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 279ra36	17.5	70

99	Inhibition of autophagy contributes to melatonin-mediated neuroprotection against transient focal cerebral ischemia in rats. <i>Journal of Pharmacological Sciences</i> , <b>2014</b> , 124, 354-64	3.7	68
98	Ginsenoside Rd promotes neurogenesis in rat brain after transient focal cerebral ischemia via activation of PI3K/Akt pathway. <i>Acta Pharmacologica Sinica</i> , <b>2015</b> , 36, 421-8	8	67
97	Cardioprotection of recombinant human MG53 protein in a porcine model of ischemia and reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 80, 10-19	5.8	66
96	Treatment of acute lung injury by targeting MG53-mediated cell membrane repair. <i>Nature Communications</i> , <b>2014</b> , 5, 4387	17.4	65
95	Ambient fine particulate matter induces apoptosis of endothelial progenitor cells through reactive oxygen species formation. <i>Cellular Physiology and Biochemistry</i> , <b>2015</b> , 35, 353-63	3.9	54
94	Modulation of wound healing and scar formation by MG53 protein-mediated cell membrane repair. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 24592-603	5.4	54
93	Irisin Protects Heart Against Ischemia-Reperfusion Injury Through a SOD2-Dependent Mitochondria Mechanism. <i>Journal of Cardiovascular Pharmacology</i> , <b>2018</b> , 72, 259-269	3.1	54
92	Nonmuscle myosin IIA facilitates vesicle trafficking for MG53-mediated cell membrane repair. <i>FASEB Journal</i> , <b>2012</b> , 26, 1875-83	0.9	50
91	Sundew-Inspired Adhesive Hydrogels Combined with Adipose-Derived Stem Cells for Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2423-34	9.5	46
90	TIEG1 inhibits breast cancer invasion and metastasis by inhibition of epidermal growth factor receptor (EGFR) transcription and the EGFR signaling pathway. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 50-63	4.8	46
89	Overexpression of caveolin-1 increases plasma membrane fluidity and reduces P-glycoprotein function in Hs578T/Dox. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 320, 868-74	3.4	42
88	By Activating Akt/eNOS Bilobalide B Inhibits Autophagy and Promotes Angiogenesis Following Focal Cerebral Ischemia Reperfusion. <i>Cellular Physiology and Biochemistry</i> , <b>2018</b> , 47, 604-616	3.9	40
87	Transplantation of placenta-derived mesenchymal stem cells enhances angiogenesis after ischemic limb injury in mice. <i>Journal of Cellular and Molecular Medicine</i> , <b>2016</b> , 20, 29-37	5.6	36
86	Galectin-1 is overexpressed in CD133+ human lung adenocarcinoma cells and promotes their growth and invasiveness. <i>Oncotarget</i> , <b>2015</b> , 6, 3111-22	3.3	33
85	MG53 permeates through blood-brain barrier to protect ischemic brain injury. <i>Oncotarget</i> , <b>2016</b> , 7, 22474-85	3.5	32
84	Overexpression of Long Non-Coding RNA ZXF2 Promotes Lung Adenocarcinoma Progression Through c-Myc Pathway. <i>Cellular Physiology and Biochemistry</i> , <b>2015</b> , 35, 2360-70	3.9	29
83	Cell membrane damage is involved in the impaired survival of bone marrow stem cells by oxidized low-density lipoprotein. <i>Journal of Cellular and Molecular Medicine</i> , <b>2014</b> , 18, 2445-53	5.6	29
82	Suppression of P-glycoprotein gene expression in Hs578T/Dox by the overexpression of caveolin-1. <i>FEBS Letters</i> , <b>2004</b> , 576, 369-74	3.8	28

81	Pervasive within-Mitochondrion Single-Nucleotide Variant Heteroplasmy as Revealed by Single-Mitochondrion Sequencing. <i>Cell Reports</i> , <b>2017</b> , 21, 2706-2713	10.6	27
80	Gasdermin D in pyroptosis. <i>Acta Pharmaceutica Sinica B</i> , <b>2021</b> , 11, 2768-2782	15.5	27
79	Amelioration of ischemia-reperfusion-induced muscle injury by the recombinant human MG53 protein. <i>Muscle and Nerve</i> , <b>2015</b> , 52, 852-8	3.4	26
78	UCH-L1 promotes invasion of breast cancer cells through activating Akt signaling pathway. <i>Journal of Cellular Biochemistry</i> , <b>2018</b> , 119, 691-700	4.7	26
77	Zinc Binding to MG53 Protein Facilitates Repair of Injury to Cell Membranes. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 13830-9	5.4	25
76	Hydrogen peroxide inhibits proliferation and endothelial differentiation of bone marrow stem cells partially via reactive oxygen species generation. <i>Life Sciences</i> , <b>2014</b> , 112, 33-40	6.8	25
75	The characterization of plasma membrane Ca <sup>2+</sup> -ATPase in rich sphingomyelin-cholesterol domains. <i>FEBS Letters</i> , <b>2005</b> , 579, 2397-403	3.8	25
74	Involvement of Caveolin-1 in repair of DNA damage through both homologous recombination and non-homologous end joining. <i>PLoS ONE</i> , <b>2010</b> , 5, e12055	3.7	25
73	The tumor suppressive role of NUMB isoform 1 in esophageal squamous cell carcinoma. <i>Oncotarget</i> , <b>2014</b> , 5, 5602-14	3.3	25
72	Cancer immune checkpoint blockade therapy and its associated autoimmune cardiotoxicity. <i>Acta Pharmacologica Sinica</i> , <b>2018</b> , 39, 1693-1698	8	24
71	Sustained elevation of MG53 in the bloodstream increases tissue regenerative capacity without compromising metabolic function. <i>Nature Communications</i> , <b>2019</b> , 10, 4659	17.4	24
70	Exploring naturally occurring ivy nanoparticles as an alternative biomaterial. <i>Acta Biomaterialia</i> , <b>2015</b> , 25, 268-83	10.8	23
69	Amphipathic tail-anchoring peptide is a promising therapeutic agent for prostate cancer treatment. <i>Oncotarget</i> , <b>2014</b> , 5, 7734-47	3.3	23
68	Reciprocal Negative Regulation between EGFR and DEPTOR Plays an Important Role in the Progression of Lung Adenocarcinoma. <i>Molecular Cancer Research</i> , <b>2016</b> , 14, 448-57	6.6	21
67	Effect of metabolic syndrome on mitsugumin 53 expression and function. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124128	3.7	21
66	Ambient Fine Particulate Matter Suppresses In Vivo Proliferation of Bone Marrow Stem Cells through Reactive Oxygen Species Formation. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127309	3.7	20
65	WHI-P154 enhances the chemotherapeutic effect of anticancer agents in ABCG2-overexpressing cells. <i>Cancer Science</i> , <b>2014</b> , 105, 1071-8	6.9	20
64	Nrf2 is associated with the regulation of basal transcription activity of the BRCA1 gene. <i>Acta Biochimica Et Biophysica Sinica</i> , <b>2013</b> , 45, 179-87	2.8	20

63	MG53 promotes corneal wound healing and mitigates fibrotic remodeling in rodents. <i>Communications Biology</i> , <b>2019</b> , 2, 71	6.7	19
62	Specificity for homooligomer versus heterooligomer formation in integrin transmembrane helices. <i>Journal of Molecular Biology</i> , <b>2010</b> , 401, 882-91	6.5	19
61	The Tyrosine Kinase c-Src Specifically Binds to the Active Integrin $\alpha 5 \beta 1$ to Initiate Outside-in Signaling in Platelets. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 15825-15834	5.4	18
60	MG53 Does Not Manifest the Development of Diabetes in Mice. <i>Diabetes</i> , <b>2020</b> , 69, 1052-1064	0.9	18
59	MicroRNA regulation of autophagy in cardiovascular disease. <i>Frontiers in Bioscience - Landmark</i> , <b>2017</b> , 22, 48-65	2.8	18
58	Tumor suppression by miR-31 in esophageal carcinoma is p21-dependent. <i>Genes and Cancer</i> , <b>2014</b> , 5, 436-44	2.9	18
57	Clinical impact of tumor-infiltrating inflammatory cells in primary small cell esophageal carcinoma. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 9718-34	6.3	17
56	DEPTOR suppresses the progression of esophageal squamous cell carcinoma and predicts poor prognosis. <i>Oncotarget</i> , <b>2016</b> , 7, 14188-98	3.3	17
55	Predictors of extubation outcomes following myasthenic crisis. <i>Journal of International Medical Research</i> , <b>2016</b> , 44, 1524-1533	1.4	17
54	Diabetes inhibits corneal epithelial cell migration and tight junction formation in mice and human via increasing ROS and impairing Akt signaling. <i>Acta Pharmacologica Sinica</i> , <b>2019</b> , 40, 1205-1211	8	15
53	Quantifying Drug-Induced Nanomechanics and Mechanical Effects to Single Cardiomyocytes for Optimal Drug Administration To Minimize Cardiotoxicity. <i>Langmuir</i> , <b>2016</b> , 32, 1909-19	4	15
52	Involvement of MyoD and c-myc in regulation of basal and estrogen-induced transcription activity of the BRCA1 gene. <i>Breast Cancer Research and Treatment</i> , <b>2011</b> , 125, 699-713	4.4	15
51	Delivery of placenta-derived mesenchymal stem cells ameliorates ischemia induced limb injury by immunomodulation. <i>Cellular Physiology and Biochemistry</i> , <b>2014</b> , 34, 1998-2006	3.9	14
50	Visualization of MG53-mediated cell membrane repair using in vivo and in vitro systems. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	14
49	Growth suppression of MCF-7 cancer cell-derived xenografts in nude mice by caveolin-1. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 376, 215-20	3.4	14
48	MG 53 Protein Protects Aortic Valve Interstitial Cells From Membrane Injury and Fibrocalcific Remodeling. <i>Journal of the American Heart Association</i> , <b>2019</b> , 8, e009960	6	13
47	Effect of recombinant human MG53 protein on tourniquet-induced ischemia-reperfusion injury in rat muscle. <i>Muscle and Nerve</i> , <b>2014</b> , 49, 919-21	3.4	13
46	Peripheral blood non-canonical small non-coding RNAs as novel biomarkers in lung cancer. <i>Molecular Cancer</i> , <b>2020</b> , 19, 159	42.1	13

45	Prion Protein Protects against Renal Ischemia/Reperfusion Injury. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136923	3.7	12
44	Identification of General and Heart-Specific miRNAs in Sheep ( <i>Ovis aries</i> ). <i>PLoS ONE</i> , <b>2015</b> , 10, e0143313	3.7	11
43	A role for p53 in the regulation of extracellular matrix metalloproteinase inducer in human cancer cells. <i>Cancer Biology and Therapy</i> , <b>2009</b> , 8, 1722-8	4.6	11
42	TRIM50 protein regulates vesicular trafficking for acid secretion in gastric parietal cells. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33523-32	5.4	11
41	Caveolae/caveolin-1 are important modulators of store-operated calcium entry in Hs578/T breast cancer cells. <i>Journal of Pharmacological Sciences</i> , <b>2008</b> , 106, 287-94	3.7	11
40	Akt/eNOS signaling pathway mediates inhibition of endothelial progenitor cells by palmitate-induced ceramide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 308, H11-7	5.2	10
39	Urinary Trypsin Inhibitor Attenuates Acute Lung Injury by Improving Endothelial Progenitor Cells Functions. <i>Cellular Physiology and Biochemistry</i> , <b>2015</b> , 36, 1059-68	3.9	10
38	PTRF suppresses the progression of colorectal cancers. <i>Oncotarget</i> , <b>2017</b> , 8, 48650-48659	3.3	10
37	A simple, quick, and efficient CRISPR/Cas9 genome editing method for human induced pluripotent stem cells. <i>Acta Pharmacologica Sinica</i> , <b>2020</b> , 41, 1427-1432	8	9
36	A novel and quick PCR-based method to genotype mice with a leptin receptor mutation (db/db mice). <i>Acta Pharmacologica Sinica</i> , <b>2018</b> , 39, 117-123	8	9
35	Stromal cell-derived factor-1 $\alpha$ attenuates oleate-induced acute lung injury in rabbits. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 452, 191-6	3.4	9
34	Suppression of staurosporine-mediated apoptosis in Hs578T breast cells through inhibition of neutral-sphingomyelinase by caveolin-1. <i>Cancer Letters</i> , <b>2007</b> , 256, 64-72	9.9	9
33	PEA3 activates CXCR4 transcription in MDA-MB-231 and MCF7 breast cancer cells. <i>Acta Biochimica Et Biophysica Sinica</i> , <b>2011</b> , 43, 771-8	2.8	8
32	N-acetylcysteine prevents oxidized low-density lipoprotein-induced reduction of MG53 and enhances MG53 protective effect on bone marrow stem cells. <i>Journal of Cellular and Molecular Medicine</i> , <b>2020</b> , 24, 886-898	5.6	7
31	Letter by Zhu et al Regarding Article, "Glucose-Sensitive Myokine/Cardiokine MG53 Regulates Systemic Insulin Response and Metabolic Homeostasis". <i>Circulation</i> , <b>2019</b> , 140, e186-e187	16.7	6
30	BATF inhibition prevent acute allograft rejection after cardiac transplantation. <i>American Journal of Translational Research (discontinued)</i> , <b>2016</b> , 8, 3603-13	3	5
29	Yangxin Tongmai Formula ameliorates impaired glucose tolerance in children with Graves Disease through upregulation of the insulin receptor levels. <i>Acta Pharmacologica Sinica</i> , <b>2018</b> , 39, 923-929	8	5
28	Muscle multiorgan crosstalk with MG53 as a myokine for tissue repair and regeneration. <i>Current Opinion in Pharmacology</i> , <b>2021</b> , 59, 26-32	5.1	5

27	Multi-Cellular Functions of MG53 in Muscle Calcium Signaling and Regeneration. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 583393	4.6	4
26	Clinical Outcomes of Thymectomy in Myasthenia Gravis Patients with a History of Crisis. <i>World Journal of Surgery</i> , <b>2016</b> , 40, 2681-2687	3.3	4
25	Increased Numb protein expression predicts poor clinical outcomes in esophageal squamous cell carcinoma patients. <i>Cancer Biology and Therapy</i> , <b>2018</b> , 19, 34-41	4.6	3
24	2-Methoxyoestradiol inhibits glucose transport in rodent skeletal muscle. <i>Experimental Physiology</i> , <b>2010</b> , 95, 892-8	2.4	3
23	High-fat diet selectively decreases bone marrow lin <sup>+</sup> /CD117 cell population in aging mice through increased ROS production. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2020</b> , 14, 884-892	4.4	2
22	A novel organ preservation solution with efficient clearance of red blood cells improves kidney transplantation in a canine model. <i>Cell and Bioscience</i> , <b>2018</b> , 8, 28	9.8	2
21	Membrane-delimited signaling and cytosolic action of MG53 preserve hepatocyte integrity during drug-induced liver injury. <i>Journal of Hepatology</i> , <b>2021</b> ,	13.4	2
20	Non-coding RNAs and Pathological Cardiac Hypertrophy. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1229, 231-245	3.6	2
19	The Na/K-ATPase $\alpha$ /Src interaction regulates metabolic reserve and Western diet intolerance. <i>Acta Physiologica</i> , <b>2021</b> , 232, e13652	5.6	2
18	MG53 suppresses NF- $\kappa$ B activation to mitigate age-related heart failure. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9	2
17	Sustained delivery of rhMG53 promotes diabetic wound healing and hair follicle development.. <i>Bioactive Materials</i> , <b>2022</b> , 18, 104-115	16.7	2
16	Influenza virus replication in cardiomyocytes drives heart dysfunction and fibrosis.. <i>Science Advances</i> , <b>2022</b> , 8, eabm5371	14.3	2
15	Current Standards and Recent Advances in Biomarkers of Major Endocrine Tumors. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 963	5.6	1
14	Cavin3 Suppresses Breast Cancer Metastasis Inhibiting AKT Pathway. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 01228	5.6	1
13	Serp-1 Promotes Corneal Wound Healing by Facilitating Re-epithelialization and Inhibiting Fibrosis and Angiogenesis. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 649124	5.4	1
12	UCHL1 protects against ischemic heart injury via activating HIF-1 $\beta$ signal pathway.. <i>Redox Biology</i> , <b>2022</b> , 52, 102295	11.3	1
11	Ubiquitin Carboxyl-Terminal Hydrolase L1 of Cardiomyocytes Promotes Macroautophagy and Proteostasis and Protects Against Post-myocardial Infarction Cardiac Remodeling and Heart Failure.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2022</b> , 9, 866901	5.4	0
10	MG53 preserves mitochondrial integrity of cardiomyocytes during ischemia reperfusion-induced oxidative stress. <i>Redox Biology</i> , <b>2022</b> , 102357	11.3	0

- 9 Familial hypercholesterolemia with early coronary atherosclerotic heart disease: A case report. *Experimental and Therapeutic Medicine*, **2019**, 18, 981-986 2.1
- 8 Skeletal muscle tissue engineering **2022**, 67-80
- 7 The Contribution of Hirudin-Like Acidic Sequences within the Factor Va Heavy Chain to Prothrombinase Function.. *Blood*, **2004**, 104, 1714-1714 2.2
- 6 Noncoding RNAs and Heart Failure. *Advances in Experimental Medicine and Biology*, **2020**, 1229, 215-229 3.6
- 5 Effect of Metabolic Syndrome on Mitsugumin 53 Expression and Function. *FASEB Journal*, **2015**, 29, 801.7.9
- 4 Chronic high fat diet decreases CD34/CD133 cell population in bone marrow and peripheral circulation in association with decreased level of serum MG53. *FASEB Journal*, **2015**, 29, 801.6 0.9
- 3 Oxidized low-density lipoprotein decreases endothelial progenitor cell populations in bone marrow and peripheral circulation independent of ROS production. *FASEB Journal*, **2015**, 29, 1046.2 0.9
- 2 Regulation of Autophagy by microRNAs: Implications in Cancer Therapy. *Current Cancer Research*, **2016**, 59-84 0.2
- 1 Recombinant Human MG53 Protein Protects Against Alkaline-Induced Corneal Injuries in Mice. *Military Medicine*, **2021**, 186, 486-490 1.3