

Hua Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

10,232
citations

94269

37
h-index

34900

98
g-index

128
all docs

128
docs citations

128
times ranked

21712
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Role of MicroRNA miR-27a and miR-451 in the regulation of MDR1/P-glycoprotein expression in human cancer cells. <i>Biochemical Pharmacology</i> , 2008, 76, 582-588.	2.0	431
3	Regulation of autophagy by a beclin 1-targeted microRNA, miR-30a, in cancer cells. <i>Autophagy</i> , 2009, 5, 816-823.	4.3	417
4	Gasdermin D in pyroptosis. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 2768-2782.	5.7	274
5	Inhibition of cyclooxygenase 2 blocks human cytomegalovirus replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3932-3937.	3.3	211
6	CRISPR-mediated Genome Editing Restores Dystrophin Expression and Function in mdx Mice. <i>Molecular Therapy</i> , 2016, 24, 564-569.	3.7	194
7	Recombinant MG53 Protein Modulates Therapeutic Cell Membrane Repair in Treatment of Muscular Dystrophy. <i>Science Translational Medicine</i> , 2012, 4, 139ra85.	5.8	165
8	Regulation of multidrug resistance by microRNAs in anti-cancer therapy. <i>Acta Pharmaceutica Sinica B</i> , 2017, 7, 38-51.	5.7	159
9	MG53-induced IRS-1 ubiquitination negatively regulates skeletal myogenesis and insulin signalling. <i>Nature Communications</i> , 2013, 4, 2354.	5.8	140
10	Irisin protects mitochondria function during pulmonary ischemia/reperfusion injury. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	139
11	A Bioinspired Alginate-Gum Arabic Hydrogel with Micro-/Nanoscale Structures for Controlled Drug Release in Chronic Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22160-22175.	4.0	127
12	Elevated Orai1 expression mediates tumor-promoting intracellular Ca ²⁺ oscillations in human esophageal squamous cell carcinoma. <i>Oncotarget</i> , 2014, 5, 3455-3471.	0.8	125
13	MiRNA-30a-mediated autophagy inhibition sensitizes renal cell carcinoma cells to sorafenib. <i>Biochemical and Biophysical Research Communications</i> , 2015, 459, 234-239.	1.0	117
14	MG53-mediated cell membrane repair protects against acute kidney injury. <i>Science Translational Medicine</i> , 2015, 7, 279ra36.	5.8	103
15	Treatment of acute lung injury by targeting MG53-mediated cell membrane repair. <i>Nature Communications</i> , 2014, 5, 4387.	5.8	100
16	Cardioprotection of recombinant human MG53 protein in a porcine model of ischemia and reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2015, 80, 10-19.	0.9	91
17	Silencing of Elongation Factor-2 Kinase Potentiates the Effect of 2-Deoxy- ³ -Glucose against Human Glioma Cells through Blunting of Autophagy. <i>Cancer Research</i> , 2009, 69, 2453-2460.	0.4	90
18	Irisin Protects Heart Against Ischemia-Reperfusion Injury Through a SOD2-Dependent Mitochondria Mechanism. <i>Journal of Cardiovascular Pharmacology</i> , 2018, 72, 259-269.	0.8	90

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19	Polymerase Transcriptase Release Factor (PTRF) Anchors MG53 Protein to Cell Injury Site for Initiation of Membrane Repair. <i>Journal of Biological Chemistry</i> , 2011, 286, 12820-12824.	1.6	87
20	Inhibition of Autophagy Contributes to Melatonin-Mediated Neuroprotection Against Transient Focal Cerebral Ischemia in Rats. <i>Journal of Pharmacological Sciences</i> , 2014, 124, 354-364.	1.1	85
21	Ginsenoside Rd promotes neurogenesis in rat brain after transient focal cerebral ischemia via activation of PI3K/Akt pathway. <i>Acta Pharmacologica Sinica</i> , 2015, 36, 421-428.	2.8	85
22	Enhancing Muscle Membrane Repair by Gene Delivery of MG53 Ameliorates Muscular Dystrophy and Heart Failure in β -Sarcoglycan-deficient Hamsters. <i>Molecular Therapy</i> , 2012, 20, 727-735.	3.7	82
23	Regulation of autophagy by miR-30d impacts sensitivity of anaplastic thyroid carcinoma to cisplatin. <i>Biochemical Pharmacology</i> , 2014, 87, 562-570.	2.0	77
24	Ambient Fine Particulate Matter Induces Apoptosis of Endothelial Progenitor Cells Through Reactive Oxygen Species Formation. <i>Cellular Physiology and Biochemistry</i> , 2015, 35, 353-363.	1.1	72
25	Nonmuscle myosin IIA facilitates vesicle trafficking for MG53-mediated cell membrane repair. <i>FASEB Journal</i> , 2012, 26, 1875-1883.	0.2	64
26	Modulation of Wound Healing and Scar Formation by MG53 Protein-mediated Cell Membrane Repair. <i>Journal of Biological Chemistry</i> , 2015, 290, 24592-24603.	1.6	64
27	Sundew-Inspired Adhesive Hydrogels Combined with Adipose-Derived Stem Cells for Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2423-2434.	4.0	64
28	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> , 2012, 32, 50-63.	1.1	56
29	By Activating Akt/eNOS Bilobalide B Inhibits Autophagy and Promotes Angiogenesis Following Focal Cerebral Ischemia Reperfusion. <i>Cellular Physiology and Biochemistry</i> , 2018, 47, 604-616.	1.1	55
30	MG53 permeates through blood-brain barrier to protect ischemic brain injury. <i>Oncotarget</i> , 2016, 7, 22474-22485.	0.8	54
31	Pervasive within-Mitochondrion Single-Nucleotide Variant Heteroplasmy as Revealed by Single-Mitochondrion Sequencing. <i>Cell Reports</i> , 2017, 21, 2706-2713.	2.9	48
32	Overexpression of caveolin-1 increases plasma membrane fluidity and reduces P-glycoprotein function in Hs578T/Dox. <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 868-874.	1.0	47
33	Sustained elevation of MG53 in the bloodstream increases tissue regenerative capacity without compromising metabolic function. <i>Nature Communications</i> , 2019, 10, 4659.	5.8	47
34	Transplantation of placenta-derived mesenchymal stem cells enhances angiogenesis after ischemic limb injury in mice. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 29-37.	1.6	43
35	Pyroptosis and pyroptosis-inducing cancer drugs. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 2462-2473.	2.8	41
36	The tumor suppressive role of NUMB isoform 1 in esophageal squamous cell carcinoma. <i>Oncotarget</i> , 2014, 5, 5602-5614.	0.8	40

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37	Cancer immune checkpoint blockade therapy and its associated autoimmune cardiotoxicity. <i>Acta Pharmacologica Sinica</i> , 2018, 39, 1693-1698.	2.8	39
38	Exploring naturally occurring ivy nanoparticles as an alternative biomaterial. <i>Acta Biomaterialia</i> , 2015, 25, 268-283.	4.1	37
39	Galectin-1 is overexpressed in CD133+ human lung adenocarcinoma cells and promotes their growth and invasiveness. <i>Oncotarget</i> , 2015, 6, 3111-3122.	0.8	37
40	Peripheral blood non-canonical small non-coding RNAs as novel biomarkers in lung cancer. <i>Molecular Cancer</i> , 2020, 19, 159.	7.9	36
41	MG53 Does Not Manifest the Development of Diabetes in <i>db/db</i> Mice. <i>Diabetes</i> , 2020, 69, 1052-1064.	0.3	36
42	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> , 2014, 18, 2445-2453.	1.6	34
43	UCHL1 promotes invasion of breast cancer cells through activating Akt signaling pathway. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 691-700.	1.2	34
44	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> , 2019, 40, 1205-1211.	2.8	34
45	Effect of Metabolic Syndrome on Mitsugumin 53 Expression and Function. <i>PLoS ONE</i> , 2015, 10, e0124128.	1.1	33
46	Overexpression of Long Non-Coding RNA ZXF2 Promotes Lung Adenocarcinoma Progression Through c-Myc Pathway. <i>Cellular Physiology and Biochemistry</i> , 2015, 35, 2360-2370.	1.1	33
47	Amelioration of ischemia-reperfusion-induced muscle injury by the recombinant human MG53 protein. <i>Muscle and Nerve</i> , 2015, 52, 852-858.	1.0	32
48	Involvement of Caveolin-1 in Repair of DNA Damage through Both Homologous Recombination and Non-Homologous End Joining. <i>PLoS ONE</i> , 2010, 5, e12055.	1.1	32
49	Ambient Fine Particulate Matter Suppresses In Vivo Proliferation of Bone Marrow Stem Cells through Reactive Oxygen Species Formation. <i>PLoS ONE</i> , 2015, 10, e0127309.	1.1	31
50	Zinc Binding to MG53 Protein Facilitates Repair of Injury to Cell Membranes. <i>Journal of Biological Chemistry</i> , 2015, 290, 13830-13839.	1.6	31
51	Suppression of P-glycoprotein gene expression in Hs578T/Dox by the overexpression of caveolin-1. <i>FEBS Letters</i> , 2004, 576, 369-374.	1.3	30
52	The characterization of plasma membrane Ca ²⁺ -ATPase in rich sphingomyelin-cholesterol domains. <i>FEBS Letters</i> , 2005, 579, 2397-2403.	1.3	30
53	Hydrogen peroxide inhibits proliferation and endothelial differentiation of bone marrow stem cells partially via reactive oxygen species generation. <i>Life Sciences</i> , 2014, 112, 33-40.	2.0	29
54	MG53 promotes corneal wound healing and mitigates fibrotic remodeling in rodents. <i>Communications Biology</i> , 2019, 2, 71.	2.0	29

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55	Amphipathic tail-anchoring peptide is a promising therapeutic agent for prostate cancer treatment. <i>Oncotarget</i> , 2014, 5, 7734-7747.	0.8	29
56	Reciprocal Negative Regulation between EGFR and DEPTOR Plays an Important Role in the Progression of Lung Adenocarcinoma. <i>Molecular Cancer Research</i> , 2016, 14, 448-457.	1.5	28
57	Predictors of extubation outcomes following myasthenic crisis. <i>Journal of International Medical Research</i> , 2016, 44, 1524-1533.	0.4	27
58	Nrf2 is associated with the regulation of basal transcription activity of the <i>BRCA1</i> gene. <i>Acta Biochimica Et Biophysica Sinica</i> , 2013, 45, 179-187.	0.9	25
59	Clinical Impact of Tumor-Infiltrating Inflammatory Cells in Primary Small Cell Esophageal Carcinoma. <i>International Journal of Molecular Sciences</i> , 2014, 15, 9718-9734.	1.8	25
60	The Tyrosine Kinase c-Src Specifically Binds to the Active Integrin $\alpha 5 \beta 3$ to Initiate Outside-in Signaling in Platelets. <i>Journal of Biological Chemistry</i> , 2015, 290, 15825-15834.	1.6	25
61	DEPTOR suppresses the progression of esophageal squamous cell carcinoma and predicts poor prognosis. <i>Oncotarget</i> , 2016, 7, 14188-14198.	0.8	24
62	MicroRNA regulation of autophagy in cardiovascular disease. <i>Frontiers in Bioscience - Landmark</i> , 2017, 22, 48-65.	3.0	23
63	A simple, quick, and efficient CRISPR/Cas9 genome editing method for human induced pluripotent stem cells. <i>Acta Pharmacologica Sinica</i> , 2020, 41, 1427-1432.	2.8	23
64	PTRF suppresses the progression of colorectal cancers. <i>Oncotarget</i> , 2017, 8, 48650-48659.	0.8	23
65	CRISPR activation of endogenous genes reprograms fibroblasts into cardiovascular progenitor cells for myocardial infarction therapy. <i>Molecular Therapy</i> , 2022, 30, 54-74.	3.7	22
66	Specificity for Homooligomer versus Heterooligomer Formation in Integrin Transmembrane Helices. <i>Journal of Molecular Biology</i> , 2010, 401, 882-891.	2.0	21
67	WHI $\alpha 154$ enhances the chemotherapeutic effect of anticancer agents in ABCG2-overexpressing cells. <i>Cancer Science</i> , 2014, 105, 1071-1078.	1.7	21
68	A novel and quick PCR-based method to genotype mice with a leptin receptor mutation (db/db mice). <i>Acta Pharmacologica Sinica</i> , 2018, 39, 117-123.	2.8	21
69	MG53 Protein Protects Aortic Valve Interstitial Cells From Membrane Injury and Fibrocalcific Remodeling. <i>Journal of the American Heart Association</i> , 2019, 8, e009960.	1.6	19
70	Tumor suppression by miR-31 in esophageal carcinoma is p21-dependent. <i>Genes and Cancer</i> , 2014, 5, 436-444.	0.6	19
71	Growth suppression of MCF-7 cancer cell-derived xenografts in nude mice by caveolin-1. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 215-220.	1.0	18
72	Visualization of MG53-mediated Cell Membrane Repair Using <i>in vivo</i> and <i>in vitro</i> Systems. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	17

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73	Involvement of MyoD and c-myb in regulation of basal and estrogen-induced transcription activity of the BRCA1 gene. <i>Breast Cancer Research and Treatment</i> , 2011, 125, 699-713.	1.1	17
74	MG53 suppresses NF- κ B activation to mitigate age-related heart failure. <i>JCI Insight</i> , 2021, 6, .	2.3	17
75	Membrane-delimited signaling and cytosolic action of MG53 preserve hepatocyte integrity during drug-induced liver injury. <i>Journal of Hepatology</i> , 2022, 76, 558-567.	1.8	17
76	MG53 preserves mitochondrial integrity of cardiomyocytes during ischemia reperfusion-induced oxidative stress. <i>Redox Biology</i> , 2022, 54, 102357.	3.9	17
77	Delivery of Placenta-Derived Mesenchymal Stem Cells Ameliorates Ischemia Induced Limb Injury by Immunomodulation. <i>Cellular Physiology and Biochemistry</i> , 2014, 34, 1998-2006.	1.1	16
78	Quantifying Drug-Induced Nanomechanics and Mechanical Effects to Single Cardiomyocytes for Optimal Drug Administration To Minimize Cardiotoxicity. <i>Langmuir</i> , 2016, 32, 1909-1919.	1.6	16
79	Caveolae/Caveolin-1 Are Important Modulators of Store-Operated Calcium Entry in Hs578/T Breast Cancer Cells. <i>Journal of Pharmacological Sciences</i> , 2008, 106, 287-294.	1.1	15
80	Muscle multiorgan crosstalk with MG53 as a myokine for tissue repair and regeneration. <i>Current Opinion in Pharmacology</i> , 2021, 59, 26-32.	1.7	15
81	Prion Protein Protects against Renal Ischemia/Reperfusion Injury. <i>PLoS ONE</i> , 2015, 10, e0136923.	1.1	15
82	A role for p53 in the regulation of extracellular matrix metalloproteinase inducer in human cancer cells. <i>Cancer Biology and Therapy</i> , 2009, 8, 1722-1728.	1.5	14
83	Effect of recombinant human MG53 protein on tourniquet-induced ischemia-reperfusion injury in rat muscle. <i>Muscle and Nerve</i> , 2014, 49, 919-921.	1.0	13
84	Identification of General and Heart-Specific miRNAs in Sheep (<i>Ovis aries</i>). <i>PLoS ONE</i> , 2015, 10, e0143313.	1.1	13
85	Suppression of staurosporine-mediated apoptosis in Hs578T breast cells through inhibition of neutral-sphingomyelinase by caveolin-1. <i>Cancer Letters</i> , 2007, 256, 64-72.	3.2	12
86	TRIM50 Protein Regulates Vesicular Trafficking for Acid Secretion in Gastric Parietal Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 33523-33532.	1.6	12
87	The Na/K-ATPase β 1/Src interaction regulates metabolic reserve and Western diet intolerance. <i>Acta Physiologica</i> , 2021, 232, e13652.	1.8	12
88	Akt/eNOS signaling pathway mediates inhibition of endothelial progenitor cells by palmitate-induced ceramide. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H11-H17.	1.5	11
89	Influenza virus replication in cardiomyocytes drives heart dysfunction and fibrosis. <i>Science Advances</i> , 2022, 8, eabm5371.	4.7	11
90	PEA3 activates CXCR4 transcription in MDA-MB-231 and MCF7 breast cancer cells. <i>Acta Biochimica Et Biophysica Sinica</i> , 2011, 43, 771-778.	0.9	10

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91	Urinary Trypsin Inhibitor Attenuates Acute Lung Injury by Improving Endothelial Progenitor Cells Functions. <i>Cellular Physiology and Biochemistry</i> , 2015, 36, 1059-1068.	1.1	10
92	Nâ€acetylcysteine prevents oxidized lowâ€density lipoproteinâ€induced reduction of MG53 and enhances MG53 protective effect on bone marrow stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 886-898.	1.6	10
93	UCHL1 protects against ischemic heart injury via activating HIF-1Î± signal pathway. <i>Redox Biology</i> , 2022, 52, 102295.	3.9	10
94	Stromal cell-derived factor-1Î± attenuates oleate-induced acute lung injury in rabbits. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 191-196.	1.0	9
95	Sustained delivery of rhMG53 promotes diabetic wound healing and hair follicle development. <i>Bioactive Materials</i> , 2022, 18, 104-115.	8.6	9
96	MG53 Inhibits Necroptosis Through Ubiquitination-Dependent RIPK1 Degradation for Cardiac Protection Following Ischemia/Reperfusion Injury. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	9
97	Yangxin Tongmai Formula ameliorates impaired glucose tolerance in children with Graves' disease through upregulation of the insulin receptor levels. <i>Acta Pharmacologica Sinica</i> , 2018, 39, 923-929.	2.8	8
98	Increased Numb protein expression predicts poor clinical outcomes in esophageal squamous cell carcinoma patients. <i>Cancer Biology and Therapy</i> , 2018, 19, 34-41.	1.5	7
99	Letter by Zhu et al Regarding Article, â€Glucose-Sensitive Myokine/Cardiokine MG53 Regulates Systemic Insulin Response and Metabolic Homeostasisâ€. <i>Circulation</i> , 2019, 140, e186-e187.	1.6	7
100	Multi-Cellular Functions of MG53 in Muscle Calcium Signaling and Regeneration. <i>Frontiers in Physiology</i> , 2020, 11, 583393.	1.3	7
101	Non-coding RNAs and Pathological Cardiac Hypertrophy. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1229, 231-245.	0.8	7
102	Clinical Outcomes of Thymectomy in Myasthenia Gravis Patients with a History of Crisis. <i>World Journal of Surgery</i> , 2016, 40, 2681-2687.	0.8	5
103	Current Standards and Recent Advances in Biomarkers of Major Endocrine Tumors. <i>Frontiers in Pharmacology</i> , 2018, 9, 963.	1.6	5
104	BATF inhibition prevent acute allograft rejection after cardiac transplantation. <i>American Journal of Translational Research (discontinued)</i> , 2016, 8, 3603-13.	0.0	5
105	Cavin3 Suppresses Breast Cancer Metastasis via Inhibiting AKT Pathway. <i>Frontiers in Pharmacology</i> , 2020, 11, 01228.	1.6	4
106	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> , 2022, 9, 866901.	1.1	4
107	2â€Methoxyoestradiol inhibits glucose transport in rodent skeletal muscle. <i>Experimental Physiology</i> , 2010, 95, 892-898.	0.9	3
108	A novel organ preservation solution with efficient clearance of red blood cells improves kidney transplantation in a canine model. <i>Cell and Bioscience</i> , 2018, 8, 28.	2.1	3

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109	High-fat diet selectively decreases bone marrow lin ⁺ /CD117 ⁺ cell population in aging mice through increased ROS production. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 884-892.	1.3	3
110	Serp-1 Promotes Corneal Wound Healing by Facilitating Re-epithelialization and Inhibiting Fibrosis and Angiogenesis. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 649124.	1.1	3
111	Regulation of Myogenesis by a Na/K-ATPase ⁺ Caveolin-Binding Motif. <i>Stem Cells</i> , 2022, 40, 133-148.	1.4	3
112	Novel Biomarkers and Treatments of Cardiac Diseases. <i>BioMed Research International</i> , 2016, 2016, 1-2.	0.9	2
113	Familial hypercholesterolemia with early coronary atherosclerotic heart disease: A case report. <i>Experimental and Therapeutic Medicine</i> , 2019, 18, 981-986.	0.8	1
114	Regulation of Autophagy by microRNAs: Implications in Cancer Therapy. <i>Current Cancer Research</i> , 2016, 59-84.	0.2	0
115	Recombinant Human MC53 Protein Protects Against Alkaline-Induced Corneal Injuries in Mice. <i>Military Medicine</i> , 2021, 186, 486-490.	0.4	0
116	The Contribution of Hirudin-Like Acidic Sequences within the Factor Va Heavy Chain to Prothrombinase Function.. <i>Blood</i> , 2004, 104, 1714-1714.	0.6	0
117	A Novel Deletion in the Fviii B-Domain That Reduces Transgene Size While Preserving FVIII Activity.. <i>Blood</i> , 2004, 104, 3182-3182.	0.6	0
118	Effect of Metabolic Syndrome on Mitsugumin 53 Expression and Function. <i>FASEB Journal</i> , 2015, 29, 801.7.	0.2	0
119	Chronic high fat diet decreases CD34/CD133 cell population in bone marrow and peripheral circulation in association with decreased level of serum MC53. <i>FASEB Journal</i> , 2015, 29, 801.6.	0.2	0
120	Oxidized low-density lipoprotein decreases endothelial progenitor cell populations in bone marrow and peripheral circulation independent of ROS production. <i>FASEB Journal</i> , 2015, 29, 1046.2.	0.2	0
121	Noncoding RNAs and Heart Failure. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1229, 215-229.	0.8	0
122	Skeletal muscle tissue engineering. , 2022, , 67-80.		0