

Guang-Hui Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141
papers

6,864
citations

39
h-index

80
g-index

158
ext. papers

9,035
ext. citations

14.5
avg, IF

5.85
L-index

#	Paper	IF	Citations
141	mTORC2/RICTOR exerts differential levels of metabolic control in human embryonic, mesenchymal and neural stem cells.. <i>Protein and Cell</i> , 2022 , 1	7.2	0
140	Low-dose chloroquine treatment extends the lifespan of aged rats.. <i>Protein and Cell</i> , 2022 , 1	7.2	2
139	Cross-species metabolomic analysis identifies uridine as a potent regeneration promoting factor.. <i>Cell Discovery</i> , 2022 , 8, 6	22.3	4
138	Rejuvenation of Tissue Stem Cells by Intrinsic and Extrinsic Factors.. <i>Stem Cells Translational Medicine</i> , 2022 , 11, 231-238	6.9	0
137	FTO stabilizes MIS12 and counteracts senescence.. <i>Protein and Cell</i> , 2022 , 1	7.2	1
136	In vivo partial cellular reprogramming enhances liver plasticity and regeneration.. <i>Cell Reports</i> , 2022 , 39, 110730	10.6	1
135	Deciphering aging at three-dimensional genomic resolution 2022 , 100034		0
134	Emerging role of RNA m6A modification in aging regulation 2022 , 1,		0
133	Heterochronic parabiosis induces stem cell revitalization and systemic rejuvenation across aged tissues. <i>Cell Stem Cell</i> , 2022 , 29, 990-1005.e10	18	2
132	A single-cell transcriptomic landscape of the lungs of patients with COVID-19. <i>Nature Cell Biology</i> , 2021 ,	23.4	9
131	Aging weakens Th17 cell pathogenicity and ameliorates experimental autoimmune uveitis in mice. <i>Protein and Cell</i> , 2021 , 1	7.2	2
130	Mitochondrial sirtuins, metabolism, and aging. <i>Journal of Genetics and Genomics</i> , 2021 ,	4	6
129	Database Resources of the National Genomics Data Center, China National Center for Bioinformatics in 2022. <i>Nucleic Acids Research</i> , 2021 ,	20.1	15
128	Hyperthermia differentially affects specific human stem cells and their differentiated derivatives. <i>Protein and Cell</i> , 2021 , 1	7.2	1
127	Deciphering primate retinal aging at single-cell resolution. <i>Protein and Cell</i> , 2021 , 12, 889-898	7.2	7
126	SIRT3 consolidates heterochromatin and counteracts senescence. <i>Nucleic Acids Research</i> , 2021 , 49, 4203-4219	26.1	15
125	Single-nucleus transcriptomic landscape of primate hippocampal aging. <i>Protein and Cell</i> , 2021 , 12, 695-716	7.2	6

124	A single-cell transcriptomic atlas of primate pancreatic islet aging. <i>National Science Review</i> , 2021 , 8, nwaab1027	12.7	12
123	Dynamic cell transition and immune response landscapes of axolotl limb regeneration revealed by single-cell analysis. <i>Protein and Cell</i> , 2021 , 12, 57-66	7.2	20
122	Stabilization of heterochromatin by CLOCK promotes stem cell rejuvenation and cartilage regeneration. <i>Cell Research</i> , 2021 , 31, 187-205	24.7	18
121	A Single-Cell Transcriptomic Atlas of Human Skin Aging. <i>Developmental Cell</i> , 2021 , 56, 383-397.e8	10.2	31
120	Aging Atlas: a multi-omics database for aging biology. <i>Nucleic Acids Research</i> , 2021 , 49, D825-D830	20.1	32
119	FOXO3-engineered human mesenchymal progenitor cells efficiently promote cardiac repair after myocardial infarction. <i>Protein and Cell</i> , 2021 , 12, 145-151	7.2	8
118	Single-cell transcriptomic atlas of primate cardiopulmonary aging. <i>Cell Research</i> , 2021 , 31, 415-432	24.7	31
117	Exosomes from antler stem cells alleviate mesenchymal stem cell senescence and osteoarthritis. <i>Protein and Cell</i> , 2021 , 1	7.2	6
116	Large-scale chemical screen identifies Gallic acid as a geroprotector for human stem cells. <i>Protein and Cell</i> , 2021 , 1	7.2	5
115	Senescent immune cells release grancalcin to promote skeletal aging. <i>Cell Metabolism</i> , 2021 , 33, 1957-1973.e6	24.6	11
114	A genome-wide CRISPR-based screen identifies as a driver of cellular senescence. <i>Science Translational Medicine</i> , 2021 , 13,	17.5	16
113	Regeneration Roadmap: database resources for regenerative biology. <i>Nucleic Acids Research</i> , 2021 ,	20.1	3
112	A β -galactosidase kiss of death for senescent cells. <i>Cell Research</i> , 2020 , 30, 556-557	24.7	1
111	A single-cell transcriptomic landscape of primate arterial aging. <i>Nature Communications</i> , 2020 , 11, 2202	17.4	36
110	ZKSCAN3 counteracts cellular senescence by stabilizing heterochromatin. <i>Nucleic Acids Research</i> , 2020 , 48, 6001-6018	20.1	19
109	SIRT7 antagonizes human stem cell aging as a heterochromatin stabilizer. <i>Protein and Cell</i> , 2020 , 11, 483-504	7.2	37
108	Genome-wide R-loop Landscapes during Cell Differentiation and Reprogramming. <i>Cell Reports</i> , 2020 , 32, 107870	10.6	20
107	Caloric Restriction Reprograms the Single-Cell Transcriptional Landscape of <i>Rattus Norvegicus</i> Aging. <i>Cell</i> , 2020 , 180, 984-1001.e22	56.2	91

106	Single-Cell Transcriptomic Atlas of Primate Ovarian Aging. <i>Cell</i> , 2020 , 180, 585-600.e19	56.2	113
105	Super-resolution fluorescence-assisted diffraction computational tomography reveals the three-dimensional landscape of the cellular organelle interactome. <i>Light: Science and Applications</i> , 2020 , 9, 11	16.7	34
104	KLTHO and sTGR2 treatment counteract the osteoarthritic phenotype developed in a rat model. <i>Protein and Cell</i> , 2020 , 11, 219-226	7.2	6
103	Treating osteoarthritis via gene therapy with rejuvenation factors. <i>Gene Therapy</i> , 2020 , 27, 309-311	4	6
102	Single-cell omics in ageing: a young and growing field. <i>Nature Metabolism</i> , 2020 , 2, 293-302	14.6	23
101	Protein quality control of cell stemness. <i>Cell Regeneration</i> , 2020 , 9, 22	2.5	5
100	Protein quality control of cell stemness. <i>Cell Regeneration</i> , 2020 , 9, 22	2.5	2
99	The ageing epigenome and its rejuvenation. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 137-150	48.7	122
98	Antifungal Halogenated Cyclopentenones from the Endophytic Fungus of by the One Strain-Many Compounds Strategy. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 185-192	5.7	10
97	The conundrum of human immune system "senescence". <i>Mechanisms of Ageing and Development</i> , 2020 , 192, 111357	5.6	25
96	METTL3 counteracts premature aging via m6A-dependent stabilization of MIS12 mRNA. <i>Nucleic Acids Research</i> , 2020 , 48, 11083-11096	20.1	32
95	ALKBH1 deficiency leads to loss of homeostasis in human diploid somatic cells. <i>Protein and Cell</i> , 2020 , 11, 688-695	7.2	6
94	Lack of consensus on an aging biology paradigm? A global survey reveals an agreement to disagree, and the need for an interdisciplinary framework. <i>Mechanisms of Ageing and Development</i> , 2020 , 191, 111316	5.6	26
93	A human circulating immune cell landscape in aging and COVID-19. <i>Protein and Cell</i> , 2020 , 11, 740-770	7.2	88
92	Generation of a Hutchinson-Gilford progeria syndrome monkey model by base editing. <i>Protein and Cell</i> , 2020 , 11, 809-824	7.2	18
91	Rescue of premature aging defects in Cockayne syndrome stem cells by CRISPR/Cas9-mediated gene correction. <i>Protein and Cell</i> , 2020 , 11, 1-22	7.2	29
90	Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. <i>Cell Research</i> , 2019 , 29, 804-819	24.7	26
89	Induced pluripotent stem cell-based modeling of mutant LRRK2-associated Parkinson's disease. <i>European Journal of Neuroscience</i> , 2019 , 49, 561-589	3.5	13

88	Mutations in foregut SOX2 cells induce efficient proliferation via CXCR2 pathway. <i>Protein and Cell</i> , 2019 , 10, 485-495	7.2	1
87	Maintenance of Nucleolar Homeostasis by CBX4 Alleviates Senescence and Osteoarthritis. <i>Cell Reports</i> , 2019 , 26, 3643-3656.e7	10.6	45
86	Up-regulation of FOXD1 by YAP alleviates senescence and osteoarthritis. <i>PLoS Biology</i> , 2019 , 17, e3000201	9.7	48
85	Basic and translational aging research in China: present and future. <i>Protein and Cell</i> , 2019 , 10, 476-484	7.2	19
84	Telomere-dependent and telomere-independent roles of RAP1 in regulating human stem cell homeostasis. <i>Protein and Cell</i> , 2019 , 10, 649-667	7.2	19
83	Chemical screen identifies a geroprotective role of quercetin in premature aging. <i>Protein and Cell</i> , 2019 , 10, 417-435	7.2	51
82	Low-dose quercetin positively regulates mouse healthspan. <i>Protein and Cell</i> , 2019 , 10, 770-775	7.2	19
81	Stabilizing heterochromatin by DGCR8 alleviates senescence and osteoarthritis. <i>Nature Communications</i> , 2019 , 10, 3329	17.4	41
80	DJ-1 is dispensable for human stem cell homeostasis. <i>Protein and Cell</i> , 2019 , 10, 846-853	7.2	9
79	Modeling CADASIL vascular pathologies with patient-derived induced pluripotent stem cells. <i>Protein and Cell</i> , 2019 , 10, 249-271	7.2	28
78	FOXO3-Engineered Human ESC-Derived Vascular Cells Promote Vascular Protection and Regeneration. <i>Cell Stem Cell</i> , 2019 , 24, 447-461.e8	18	39
77	Differential stem cell aging kinetics in Hutchinson-Gilford progeria syndrome and Werner syndrome. <i>Protein and Cell</i> , 2018 , 9, 333-350	7.2	38
76	Metformin alleviates human cellular aging by upregulating the endoplasmic reticulum glutathione peroxidase 7. <i>Aging Cell</i> , 2018 , 17, e12765	9.9	72
75	ATF6 safeguards organelle homeostasis and cellular aging in human mesenchymal stem cells. <i>Cell Discovery</i> , 2018 , 4, 2	22.3	35
74	First stem cell transplantation to regenerate human lung. <i>Protein and Cell</i> , 2018 , 9, 244-245	7.2	7
73	Adenine base editing to mimic or correct disease mutations in rodents. <i>Protein and Cell</i> , 2018 , 9, 752-753	7.2	7
72	SIRT6 deficiency results in developmental retardation in cynomolgus monkeys. <i>Nature</i> , 2018 , 560, 661-665	55.4	91
71	Ectopic hTERT expression facilitates reprogramming of fibroblasts derived from patients with Werner syndrome as a WS cellular model. <i>Cell Death and Disease</i> , 2018 , 9, 923	9.8	10

70	Epigenetic Modifications in Cardiovascular Aging and Diseases. <i>Circulation Research</i> , 2018 , 123, 773-786	15.7	90
69	Antiproliferative Sesquiterpenoids from <i>Ligularia rumicifolia</i> with Diverse Skeletons. <i>Journal of Natural Products</i> , 2018 , 81, 1992-2003	4.9	11
68	CRISPR/Cas9-mediated gene knockout reveals a guardian role of NF- κ B/RelA in maintaining the homeostasis of human vascular cells. <i>Protein and Cell</i> , 2018 , 9, 945-965	7.2	15
67	Visualization of aging-associated chromatin alterations with an engineered TALE system. <i>Cell Research</i> , 2017 , 27, 483-504	24.7	36
66	CRISPR/Cas9-mediated targeted gene correction in amyotrophic lateral sclerosis patient iPSCs. <i>Protein and Cell</i> , 2017 , 8, 365-378	7.2	70
65	Autophagy impairment mediated by S-nitrosation of ATG4B leads to neurotoxicity in response to hyperglycemia. <i>Autophagy</i> , 2017 , 13, 1145-1160	10.2	52
64	Regulation of Stem Cell Aging by Metabolism and Epigenetics. <i>Cell Metabolism</i> , 2017 , 26, 460-474	24.6	121
63	Increased GSNOR Expression during Aging Impairs Cognitive Function and Decreases S-Nitrosation of CaMKII α . <i>Journal of Neuroscience</i> , 2017 , 37, 9741-9758	6.6	19
62	LRRK2 functions as a scaffolding kinase of ASK1-mediated neuronal cell death. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 2356-2368	4.9	16
61	Genetic enhancement in cultured human adult stem cells conferred by a single nucleotide recoding. <i>Cell Research</i> , 2017 , 27, 1178-1181	24.7	28
60	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. <i>Nature</i> , 2016 , 540, 144-149	50.4	645
59	Modeling xeroderma pigmentosum associated neurological pathologies with patients-derived iPSCs. <i>Protein and Cell</i> , 2016 , 7, 210-21	7.2	24
58	Repression of the Antioxidant NRF2 Pathway in Premature Aging. <i>Cell</i> , 2016 , 165, 1361-1374	56.2	275
57	Vitamin C alleviates aging defects in a stem cell model for Werner syndrome. <i>Protein and Cell</i> , 2016 , 7, 478-88	7.2	43
56	SIRT6 safeguards human mesenchymal stem cells from oxidative stress by coactivating NRF2. <i>Cell Research</i> , 2016 , 26, 190-205	24.7	192
55	Reduced miR-200b and miR-200c expression contributes to abnormal hepatic lipid accumulation by stimulating JUN expression and activating the transcription of sreb1. <i>Oncotarget</i> , 2016 , 7, 36207-36219 ³⁻³		26
54	iPSC Disease Modeling of Laminopathies 2016 , 53-67		1
53	SIRT6 Controls Hematopoietic Stem Cell Homeostasis through Epigenetic Regulation of Wnt Signaling. <i>Cell Stem Cell</i> , 2016 , 18, 495-507	18	87

52	CRISPR/Cas9 and TALE: beyond cut and paste. <i>Protein and Cell</i> , 2015 , 6, 157-159	7.2	5
51	Aging stem cells. A Werner syndrome stem cell model unveils heterochromatin alterations as a driver of human aging. <i>Science</i> , 2015 , 348, 1160-3	33.3	320
50	A widely adaptable approach to generate integration-free iPSCs from non-invasively acquired human somatic cells. <i>Protein and Cell</i> , 2015 , 6, 386-9	7.2	9
49	Selective elimination of mitochondrial mutations in the germline by genome editing. <i>Cell</i> , 2015 , 161, 459-469	56.2	187
48	PTEN deficiency reprogrammes human neural stem cells towards a glioblastoma stem cell-like phenotype. <i>Nature Communications</i> , 2015 , 6, 10068	17.4	98
47	Regenerative medicine: targeted genome editing in vivo. <i>Cell Research</i> , 2015 , 25, 271-2	24.7	9
46	Direct reprogramming of porcine fibroblasts to neural progenitor cells. <i>Protein and Cell</i> , 2014 , 5, 4-7	7.2	10
45	Direct conversion of human fibroblasts into retinal pigment epithelium-like cells by defined factors. <i>Protein and Cell</i> , 2014 , 5, 48-58	7.2	52
44	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. <i>Protein and Cell</i> , 2014 , 5, 59-68	7.2	21
43	Gating pluripotency via nuclear pores. <i>Trends in Molecular Medicine</i> , 2014 , 20, 1-7	11.5	12
42	Regeneration: making muscle from hPSCs. <i>Cell Research</i> , 2014 , 24, 1159-61	24.7	4
41	A novel suppressive effect of alcohol dehydrogenase 5 in neuronal differentiation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 20193-9	5.4	19
40	Targeted gene correction minimally impacts whole-genome mutational load in human-disease-specific induced pluripotent stem cell clones. <i>Cell Stem Cell</i> , 2014 , 15, 31-6	18	138
39	Modelling Fanconi anemia pathogenesis and therapeutics using integration-free patient-derived iPSCs. <i>Nature Communications</i> , 2014 , 5, 4330	17.4	84
38	A cut above the rest: targeted genome editing technologies in human pluripotent stem cells. <i>Journal of Biological Chemistry</i> , 2014 , 289, 4594-9	5.4	100
37	A chemical approach to "rewire" neural progenitor cells. <i>Cell Research</i> , 2014 , 24, 641-2	24.7	1
36	A gain-of-function mutation in Tnni2 impeded bone development through increasing Hif3a expression in DA2B mice. <i>PLoS Genetics</i> , 2014 , 10, e1004589	6	17
35	Regenerative medicine: transdifferentiation in vivo. <i>Cell Research</i> , 2014 , 24, 141-2	24.7	20

34	Direct conversion of human fibroblasts into retinal pigment epithelium-like cells by defined factors 2014 , 5, 48		2
33	Mitochondrial regulation in pluripotent stem cells. <i>Cell Metabolism</i> , 2013 , 18, 325-32	24.6	278
32	Concealing cellular defects in pluripotent stem cells. <i>Trends in Cell Biology</i> , 2013 , 23, 587-92	18.3	11
31	DNA methylome: Unveiling your biological age. <i>Protein and Cell</i> , 2013 , 4, 723-5	7.2	3
30	Beating in a dish: new hopes for cardiomyocyte regeneration. <i>Cell Research</i> , 2013 , 23, 314-6	24.7	4
29	Progress and prospects in stem cell therapy. <i>Acta Pharmacologica Sinica</i> , 2013 , 34, 741-6	8	23
28	hESC-derived pancreatic progenitors. <i>Cell Research</i> , 2013 , 23, 592-4	24.7	3
27	New march towards the regeneration of sensation and cognition: hear more, see more and learn more. <i>Journal of Molecular Cell Biology</i> , 2013 , 5, 151-3	6.3	4
26	Autophagic control of cell stemness. <i>EMBO Molecular Medicine</i> , 2013 , 5, 327-31	12	118
25	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. <i>Protein and Cell</i> , 2013 , 5, 59	7.2	2
24	Induced neural stem cells: a new tool for studying neural development and neurological disorders. <i>Cell Research</i> , 2012 , 22, 1087-91	24.7	19
23	Establishment of hepatic and neural differentiation platforms of Wilson's disease specific induced pluripotent stem cells. <i>Protein and Cell</i> , 2012 , 3, 855-63	7.2	27
22	Progressive degeneration of human neural stem cells caused by pathogenic LRRK2. <i>Nature</i> , 2012 , 491, 603-7	50.4	250
21	iPSC technology to study human aging and aging-related disorders. <i>Current Opinion in Cell Biology</i> , 2012 , 24, 765-74	9	46
20	Rejuvenating liver and pancreas through cell transdifferentiation. <i>Cell Research</i> , 2012 , 22, 616-9	24.7	19
19	Navigating the epigenetic landscape of pluripotent stem cells. <i>Nature Reviews Molecular Cell Biology</i> , 2012 , 13, 524-35	48.7	90
18	Cord blood-derived neuronal cells by ectopic expression of Sox2 and c-Myc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12556-61	11.5	60
17	Converted neural cells: induced to a cure?. <i>Protein and Cell</i> , 2012 , 3, 91-7	7.2	5

16	Higher-order genomic organization in pluripotent stem cells. <i>Protein and Cell</i> , 2012 , 3, 483-6	7.2	4
15	Human induced pluripotent stem cells derived hepatocytes: rising promise for disease modeling, drug development and cell therapy. <i>Protein and Cell</i> , 2012 , 3, 246-50	7.2	47
14	Cut and paste: restoring cellular function by gene correction. <i>Cell Research</i> , 2012 , 22, 283-4	24.7	8
13	Gating neural development and aging via nuclear pores. <i>Cell Research</i> , 2012 , 22, 1212-4	24.7	3
12	Targeted gene correction of laminopathy-associated LMNA mutations in patient-specific iPSCs. <i>Cell Stem Cell</i> , 2011 , 8, 688-94	18	188
11	Recapitulation of premature ageing with iPSCs from Hutchinson-Gilford progeria syndrome. <i>Nature</i> , 2011 , 472, 221-5	50.4	428
10	Find and replace: editing human genome in pluripotent stem cells. <i>Protein and Cell</i> , 2011 , 2, 950-6	7.2	17
9	Efficient correction of hemoglobinopathy-causing mutations by homologous recombination in integration-free patient iPSCs. <i>Cell Research</i> , 2011 , 21, 1740-4	24.7	54
8	Lipin proteins form homo- and hetero-oligomers. <i>Biochemical Journal</i> , 2010 , 432, 65-76	3.8	25
7	Repression of classical nuclear export by S-nitrosylation of CRM1. <i>Journal of Cell Science</i> , 2009 , 122, 3772-9	5.9	36
6	Regulation of myoblast differentiation by the nuclear envelope protein NET39. <i>Molecular and Cellular Biology</i> , 2009 , 29, 5800-12	4.8	40
5	Sumoylation regulates nuclear localization of lipin-1alpha in neuronal cells. <i>PLoS ONE</i> , 2009 , 4, e7031	3.7	58
4	NF-kappaB/p65 antagonizes Nrf2-ARE pathway by depriving CBP from Nrf2 and facilitating recruitment of HDAC3 to MafK. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008 , 1783, 713-27	4.9	424
3	Nitric oxide destabilizes Pias3 and regulates sumoylation. <i>PLoS ONE</i> , 2007 , 2, e1085	3.7	37
2	Thioredoxin-mediated negative autoregulation of peroxisome proliferator-activated receptor alpha transcriptional activity. <i>Molecular Biology of the Cell</i> , 2006 , 17, 1822-33	3.5	23
1	Resurrection of human endogenous retroviruses during aging reinforces senescence		3