

# Guang-Hui Liu

## List of Publications by Citations

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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	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. <i>Nature</i> , <b>2016</b> , 540, 144-149	50.4	645
140	Recapitulation of premature ageing with iPSCs from Hutchinson-Gilford progeria syndrome. <i>Nature</i> , <b>2011</b> , 472, 221-5	50.4	428
139	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> , <b>2008</b> , 1783, 713-719	4.7	424
138	Ageing stem cells. A Werner syndrome stem cell model unveils heterochromatin alterations as a driver of human aging. <i>Science</i> , <b>2015</b> , 348, 1160-3	33.3	320
137	Mitochondrial regulation in pluripotent stem cells. <i>Cell Metabolism</i> , <b>2013</b> , 18, 325-32	24.6	278
136	Repression of the Antioxidant NRF2 Pathway in Premature Aging. <i>Cell</i> , <b>2016</b> , 165, 1361-1374	56.2	275
135	Progressive degeneration of human neural stem cells caused by pathogenic LRRK2. <i>Nature</i> , <b>2012</b> , 491, 603-7	50.4	250
134	SIRT6 safeguards human mesenchymal stem cells from oxidative stress by coactivating NRF2. <i>Cell Research</i> , <b>2016</b> , 26, 190-205	24.7	192
133	Targeted gene correction of laminopathy-associated LMNA mutations in patient-specific iPSCs. <i>Cell Stem Cell</i> , <b>2011</b> , 8, 688-94	18	188
132	Selective elimination of mitochondrial mutations in the germline by genome editing. <i>Cell</i> , <b>2015</b> , 161, 459-469	56.2	187
131	Targeted gene correction minimally impacts whole-genome mutational load in human-disease-specific induced pluripotent stem cell clones. <i>Cell Stem Cell</i> , <b>2014</b> , 15, 31-6	18	138
130	The ageing epigenome and its rejuvenation. <i>Nature Reviews Molecular Cell Biology</i> , <b>2020</b> , 21, 137-150	48.7	122
129	Regulation of Stem Cell Aging by Metabolism and Epigenetics. <i>Cell Metabolism</i> , <b>2017</b> , 26, 460-474	24.6	121
128	Autophagic control of cell stemness. <i>EMBO Molecular Medicine</i> , <b>2013</b> , 5, 327-31	12	118
127	Single-Cell Transcriptomic Atlas of Primate Ovarian Aging. <i>Cell</i> , <b>2020</b> , 180, 585-600.e19	56.2	113
126	A cut above the rest: targeted genome editing technologies in human pluripotent stem cells. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 4594-9	5.4	100
125	PTEN deficiency reprogrammes human neural stem cells towards a glioblastoma stem cell-like phenotype. <i>Nature Communications</i> , <b>2015</b> , 6, 10068	17.4	98

124	Caloric Restriction Reprograms the Single-Cell Transcriptional Landscape of <i>Rattus Norvegicus</i> Aging. <i>Cell</i> , <b>2020</b> , 180, 984-1001.e22	56.2	91
123	SIRT6 deficiency results in developmental retardation in cynomolgus monkeys. <i>Nature</i> , <b>2018</b> , 560, 661-665	55.4	91
122	Navigating the epigenetic landscape of pluripotent stem cells. <i>Nature Reviews Molecular Cell Biology</i> , <b>2012</b> , 13, 524-35	48.7	90
121	Epigenetic Modifications in Cardiovascular Aging and Diseases. <i>Circulation Research</i> , <b>2018</b> , 123, 773-786	15.7	90
120	A human circulating immune cell landscape in aging and COVID-19. <i>Protein and Cell</i> , <b>2020</b> , 11, 740-770	7.2	88
119	SIRT6 Controls Hematopoietic Stem Cell Homeostasis through Epigenetic Regulation of Wnt Signaling. <i>Cell Stem Cell</i> , <b>2016</b> , 18, 495-507	18	87
118	Modelling Fanconi anemia pathogenesis and therapeutics using integration-free patient-derived iPSCs. <i>Nature Communications</i> , <b>2014</b> , 5, 4330	17.4	84
117	Metformin alleviates human cellular aging by upregulating the endoplasmic reticulum glutathione peroxidase 7. <i>Aging Cell</i> , <b>2018</b> , 17, e12765	9.9	72
116	CRISPR/Cas9-mediated targeted gene correction in amyotrophic lateral sclerosis patient iPSCs. <i>Protein and Cell</i> , <b>2017</b> , 8, 365-378	7.2	70
115	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> , <b>2012</b> , 109, 12556-61	11.5	60
114	Sumoylation regulates nuclear localization of lipin-1alpha in neuronal cells. <i>PLoS ONE</i> , <b>2009</b> , 4, e7031	3.7	58
113	Efficient correction of hemoglobinopathy-causing mutations by homologous recombination in integration-free patient iPSCs. <i>Cell Research</i> , <b>2011</b> , 21, 1740-4	24.7	54
112	Autophagy impairment mediated by S-nitrosation of ATG4B leads to neurotoxicity in response to hyperglycemia. <i>Autophagy</i> , <b>2017</b> , 13, 1145-1160	10.2	52
111	Direct conversion of human fibroblasts into retinal pigment epithelium-like cells by defined factors. <i>Protein and Cell</i> , <b>2014</b> , 5, 48-58	7.2	52
110	Chemical screen identifies a geroprotective role of quercetin in premature aging. <i>Protein and Cell</i> , <b>2019</b> , 10, 417-435	7.2	51
109	Up-regulation of FOXD1 by YAP alleviates senescence and osteoarthritis. <i>PLoS Biology</i> , <b>2019</b> , 17, e3000207	20.7	48
108	Human induced pluripotent stem cells derived hepatocytes: rising promise for disease modeling, drug development and cell therapy. <i>Protein and Cell</i> , <b>2012</b> , 3, 246-50	7.2	47
107	iPSC technology to study human aging and aging-related disorders. <i>Current Opinion in Cell Biology</i> , <b>2012</b> , 24, 765-74	9	46

106	Maintenance of Nucleolar Homeostasis by CBX4 Alleviates Senescence and Osteoarthritis. <i>Cell Reports</i> , <b>2019</b> , 26, 3643-3656.e7	10.6	45
105	Vitamin C alleviates aging defects in a stem cell model for Werner syndrome. <i>Protein and Cell</i> , <b>2016</b> , 7, 478-88	7.2	43
104	Stabilizing heterochromatin by DGCR8 alleviates senescence and osteoarthritis. <i>Nature Communications</i> , <b>2019</b> , 10, 3329	17.4	41
103	Regulation of myoblast differentiation by the nuclear envelope protein NET39. <i>Molecular and Cellular Biology</i> , <b>2009</b> , 29, 5800-12	4.8	40
102	FOXO3-Engineered Human ESC-Derived Vascular Cells Promote Vascular Protection and Regeneration. <i>Cell Stem Cell</i> , <b>2019</b> , 24, 447-461.e8	18	39
101	Differential stem cell aging kinetics in Hutchinson-Gilford progeria syndrome and Werner syndrome. <i>Protein and Cell</i> , <b>2018</b> , 9, 333-350	7.2	38
100	SIRT7 antagonizes human stem cell aging as a heterochromatin stabilizer. <i>Protein and Cell</i> , <b>2020</b> , 11, 483-504	7.2	37
99	Nitric oxide destabilizes Pias3 and regulates sumoylation. <i>PLoS ONE</i> , <b>2007</b> , 2, e1085	3.7	37
98	Visualization of aging-associated chromatin alterations with an engineered TALE system. <i>Cell Research</i> , <b>2017</b> , 27, 483-504	24.7	36
97	A single-cell transcriptomic landscape of primate arterial aging. <i>Nature Communications</i> , <b>2020</b> , 11, 2202	17.4	36
96	Repression of classical nuclear export by S-nitrosylation of CRM1. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 3772-9	3.9	36
95	ATF6 safeguards organelle homeostasis and cellular aging in human mesenchymal stem cells. <i>Cell Discovery</i> , <b>2018</b> , 4, 2	22.3	35
94	Super-resolution fluorescence-assisted diffraction computational tomography reveals the three-dimensional landscape of the cellular organelle interactome. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 11	16.7	34
93	METTL3 counteracts premature aging via m6A-dependent stabilization of MIS12 mRNA. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 11083-11096	20.1	32
92	Aging Atlas: a multi-omics database for aging biology. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, D825-D830	20.1	32
91	A Single-Cell Transcriptomic Atlas of Human Skin Aging. <i>Developmental Cell</i> , <b>2021</b> , 56, 383-397.e8	10.2	31
90	Single-cell transcriptomic atlas of primate cardiopulmonary aging. <i>Cell Research</i> , <b>2021</b> , 31, 415-432	24.7	31
89	Rescue of premature aging defects in Cockayne syndrome stem cells by CRISPR/Cas9-mediated gene correction. <i>Protein and Cell</i> , <b>2020</b> , 11, 1-22	7.2	29

88	Genetic enhancement in cultured human adult stem cells conferred by a single nucleotide recoding. <i>Cell Research</i> , <b>2017</b> , 27, 1178-1181	24.7	28
87	Modeling CADASIL vascular pathologies with patient-derived induced pluripotent stem cells. <i>Protein and Cell</i> , <b>2019</b> , 10, 249-271	7.2	28
86	Establishment of hepatic and neural differentiation platforms of Wilson's disease specific induced pluripotent stem cells. <i>Protein and Cell</i> , <b>2012</b> , 3, 855-63	7.2	27
85	Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. <i>Cell Research</i> , <b>2019</b> , 29, 804-819	24.7	26
84	Reduced miR-200b and miR-200c expression contributes to abnormal hepatic lipid accumulation by stimulating JUN expression and activating the transcription of srebp1. <i>Oncotarget</i> , <b>2016</b> , 7, 36207-36219	3.3	26
83	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> , <b>2020</b> , 191, 111316	5.6	26
82	Lipin proteins form homo- and hetero-oligomers. <i>Biochemical Journal</i> , <b>2010</b> , 432, 65-76	3.8	25
81	The conundrum of human immune system "senescence". <i>Mechanisms of Ageing and Development</i> , <b>2020</b> , 192, 111357	5.6	25
80	Modeling xeroderma pigmentosum associated neurological pathologies with patients-derived iPSCs. <i>Protein and Cell</i> , <b>2016</b> , 7, 210-21	7.2	24
79	Single-cell omics in ageing: a young and growing field. <i>Nature Metabolism</i> , <b>2020</b> , 2, 293-302	14.6	23
78	Progress and prospects in stem cell therapy. <i>Acta Pharmacologica Sinica</i> , <b>2013</b> , 34, 741-6	8	23
77	Thioredoxin-mediated negative autoregulation of peroxisome proliferator-activated receptor alpha transcriptional activity. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 1822-33	3.5	23
76	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. <i>Protein and Cell</i> , <b>2014</b> , 5, 59-68	7.2	21
75	Genome-wide R-loop Landscapes during Cell Differentiation and Reprogramming. <i>Cell Reports</i> , <b>2020</b> , 32, 107870	10.6	20
74	Regenerative medicine: transdifferentiation in vivo. <i>Cell Research</i> , <b>2014</b> , 24, 141-2	24.7	20
73	Dynamic cell transition and immune response landscapes of axolotl limb regeneration revealed by single-cell analysis. <i>Protein and Cell</i> , <b>2021</b> , 12, 57-66	7.2	20
72	Basic and translational aging research in China: present and future. <i>Protein and Cell</i> , <b>2019</b> , 10, 476-484	7.2	19
71	Telomere-dependent and telomere-independent roles of RAP1 in regulating human stem cell homeostasis. <i>Protein and Cell</i> , <b>2019</b> , 10, 649-667	7.2	19

70	ZKSCAN3 counteracts cellular senescence by stabilizing heterochromatin. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 6001-6018	20.1	19
69	Low-dose quercetin positively regulates mouse healthspan. <i>Protein and Cell</i> , <b>2019</b> , 10, 770-775	7.2	19
68	A novel suppressive effect of alcohol dehydrogenase 5 in neuronal differentiation. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 20193-9	5.4	19
67	Increased GSNOR Expression during Aging Impairs Cognitive Function and Decreases S-Nitrosation of CaMKII $\beta$ . <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 9741-9758	6.6	19
66	Induced neural stem cells: a new tool for studying neural development and neurological disorders. <i>Cell Research</i> , <b>2012</b> , 22, 1087-91	24.7	19
65	Rejuvenating liver and pancreas through cell transdifferentiation. <i>Cell Research</i> , <b>2012</b> , 22, 616-9	24.7	19
64	Generation of a Hutchinson-Gilford progeria syndrome monkey model by base editing. <i>Protein and Cell</i> , <b>2020</b> , 11, 809-824	7.2	18
63	Stabilization of heterochromatin by CLOCK promotes stem cell rejuvenation and cartilage regeneration. <i>Cell Research</i> , <b>2021</b> , 31, 187-205	24.7	18
62	A gain-of-function mutation in Tnni2 impeded bone development through increasing Hif3a expression in DA2B mice. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004589	6	17
61	Find and replace: editing human genome in pluripotent stem cells. <i>Protein and Cell</i> , <b>2011</b> , 2, 950-6	7.2	17
60	LRRK2 functions as a scaffolding kinase of ASK1-mediated neuronal cell death. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2017</b> , 1864, 2356-2368	4.9	16
59	A genome-wide CRISPR-based screen identifies p53 as a driver of cellular senescence. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	16
58	Database Resources of the National Genomics Data Center, China National Center for Bioinformatics in 2022. <i>Nucleic Acids Research</i> , <b>2021</b> ,	20.1	15
57	SIRT3 consolidates heterochromatin and counteracts senescence. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 4203-4219	24.1	15
56	CRISPR/Cas9-mediated gene knockout reveals a guardian role of NF- $\kappa$ B/RelA in maintaining the homeostasis of human vascular cells. <i>Protein and Cell</i> , <b>2018</b> , 9, 945-965	7.2	15
55	Induced pluripotent stem cell-based modeling of mutant LRRK2-associated Parkinson's disease. <i>European Journal of Neuroscience</i> , <b>2019</b> , 49, 561-589	3.5	13
54	Gating pluripotency via nuclear pores. <i>Trends in Molecular Medicine</i> , <b>2014</b> , 20, 1-7	11.5	12
53	A single-cell transcriptomic atlas of primate pancreatic islet aging. <i>National Science Review</i> , <b>2021</b> , 8, nwaab27	10.27	12

52	Concealing cellular defects in pluripotent stem cells. <i>Trends in Cell Biology</i> , <b>2013</b> , 23, 587-92	18.3	11
51	Antiproliferative Sesquiterpenoids from <i>Ligularia rumicifolia</i> with Diverse Skeletons. <i>Journal of Natural Products</i> , <b>2018</b> , 81, 1992-2003	4.9	11
50	Senescent immune cells release grancalcin to promote skeletal aging. <i>Cell Metabolism</i> , <b>2021</b> , 33, 1957-1976	27.6	11
49	Direct reprogramming of porcine fibroblasts to neural progenitor cells. <i>Protein and Cell</i> , <b>2014</b> , 5, 4-7	7.2	10
48	Antifungal Halogenated Cyclopentenones from the Endophytic Fungus of by the One Strain-Many Compounds Strategy. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 185-192	5.7	10
47	Ectopic hTERT expression facilitates reprogramming of fibroblasts derived from patients with Werner syndrome as a WS cellular model. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 923	9.8	10
46	A widely adaptable approach to generate integration-free iPSCs from non-invasively acquired human somatic cells. <i>Protein and Cell</i> , <b>2015</b> , 6, 386-9	7.2	9
45	DJ-1 is dispensable for human stem cell homeostasis. <i>Protein and Cell</i> , <b>2019</b> , 10, 846-853	7.2	9
44	Regenerative medicine: targeted genome editing in vivo. <i>Cell Research</i> , <b>2015</b> , 25, 271-2	24.7	9
43	A single-cell transcriptomic landscape of the lungs of patients with COVID-19. <i>Nature Cell Biology</i> , <b>2021</b> ,	23.4	9
42	Cut and paste: restoring cellular function by gene correction. <i>Cell Research</i> , <b>2012</b> , 22, 283-4	24.7	8
41	FOXO3-engineered human mesenchymal progenitor cells efficiently promote cardiac repair after myocardial infarction. <i>Protein and Cell</i> , <b>2021</b> , 12, 145-151	7.2	8
40	First stem cell transplantation to regenerate human lung. <i>Protein and Cell</i> , <b>2018</b> , 9, 244-245	7.2	7
39	Deciphering primate retinal aging at single-cell resolution. <i>Protein and Cell</i> , <b>2021</b> , 12, 889-898	7.2	7
38	KLTHO and sTGFB2 treatment counteract the osteoarthritic phenotype developed in a rat model. <i>Protein and Cell</i> , <b>2020</b> , 11, 219-226	7.2	6
37	Treating osteoarthritis via gene therapy with rejuvenation factors. <i>Gene Therapy</i> , <b>2020</b> , 27, 309-311	4	6
36	Mitochondrial sirtuins, metabolism, and aging. <i>Journal of Genetics and Genomics</i> , <b>2021</b> ,	4	6
35	ALKBH1 deficiency leads to loss of homeostasis in human diploid somatic cells. <i>Protein and Cell</i> , <b>2020</b> , 11, 688-695	7.2	6

34	Single-nucleus transcriptomic landscape of primate hippocampal aging. <i>Protein and Cell</i> , <b>2021</b> , 12, 695-716	7.2	6
33	Exosomes from antler stem cells alleviate mesenchymal stem cell senescence and osteoarthritis. <i>Protein and Cell</i> , <b>2021</b> , 1	7.2	6
32	CRISPR/Cas9 and TALE: beyond cut and paste. <i>Protein and Cell</i> , <b>2015</b> , 6, 157-159	7.2	5
31	Converted neural cells: induced to a cure?. <i>Protein and Cell</i> , <b>2012</b> , 3, 91-7	7.2	5
30	Protein quality control of cell stemness. <i>Cell Regeneration</i> , <b>2020</b> , 9, 22	2.5	5
29	Large-scale chemical screen identifies Gallic acid as a geroprotector for human stem cells. <i>Protein and Cell</i> , <b>2021</b> , 1	7.2	5
28	Regeneration: making muscle from hPSCs. <i>Cell Research</i> , <b>2014</b> , 24, 1159-61	24.7	4
27	Beating in a dish: new hopes for cardiomyocyte regeneration. <i>Cell Research</i> , <b>2013</b> , 23, 314-6	24.7	4
26	Higher-order genomic organization in pluripotent stem cells. <i>Protein and Cell</i> , <b>2012</b> , 3, 483-6	7.2	4
25	New march towards the regeneration of sensation and cognition: hear more, see more and learn more. <i>Journal of Molecular Cell Biology</i> , <b>2013</b> , 5, 151-3	6.3	4
24	Cross-species metabolomic analysis identifies uridine as a potent regeneration promoting factor.. <i>Cell Discovery</i> , <b>2022</b> , 8, 6	22.3	4
23	DNA methylome: Unveiling your biological age. <i>Protein and Cell</i> , <b>2013</b> , 4, 723-5	7.2	3
22	hESC-derived pancreatic progenitors. <i>Cell Research</i> , <b>2013</b> , 23, 592-4	24.7	3
21	Gating neural development and aging via nuclear pores. <i>Cell Research</i> , <b>2012</b> , 22, 1212-4	24.7	3
20	Resurrection of human endogenous retroviruses during aging reinforces senescence		3
19	Regeneration Roadmap: database resources for regenerative biology. <i>Nucleic Acids Research</i> , <b>2021</b> ,	20.1	3
18	Low-dose chloroquine treatment extends the lifespan of aged rats.. <i>Protein and Cell</i> , <b>2022</b> , 1	7.2	2
17	Aging weakens Th17 cell pathogenicity and ameliorates experimental autoimmune uveitis in mice. <i>Protein and Cell</i> , <b>2021</b> , 1	7.2	2



16	Protein quality control of cell stemness. <i>Cell Regeneration</i> , <b>2020</b> , 9, 22	2.5	2
15	Direct conversion of human fibroblasts into retinal pigment epithelium-like cells by defined factors <b>2014</b> , 5, 48		2
14	Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. <i>Protein and Cell</i> , <b>2013</b> , 5, 59	7.2	2
13	Heterochronic parabiosis induces stem cell revitalization and systemic rejuvenation across aged tissues. <i>Cell Stem Cell</i> , <b>2022</b> , 29, 990-1005.e10	18	2
12	Mutations in foregut SOX2 cells induce efficient proliferation via CXCR2 pathway. <i>Protein and Cell</i> , <b>2019</b> , 10, 485-495	7.2	1
11	A $\beta$ -galactosidase kiss of death for senescent cells. <i>Cell Research</i> , <b>2020</b> , 30, 556-557	24.7	1
10	A chemical approach to "rewire" neural progenitor cells. <i>Cell Research</i> , <b>2014</b> , 24, 641-2	24.7	1
9	Hyperthermia differentially affects specific human stem cells and their differentiated derivatives. <i>Protein and Cell</i> , <b>2021</b> , 1	7.2	1
8	iPSC Disease Modeling of Laminopathies <b>2016</b> , 53-67		1
7	FTO stabilizes MIS12 and counteracts senescence.. <i>Protein and Cell</i> , <b>2022</b> , 1	7.2	1
6	In vivo partial cellular reprogramming enhances liver plasticity and regeneration.. <i>Cell Reports</i> , <b>2022</b> , 39, 110730	10.6	1
5	mTORC2/RICTOR exerts differential levels of metabolic control in human embryonic, mesenchymal and neural stem cells.. <i>Protein and Cell</i> , <b>2022</b> , 1	7.2	0
4	Rejuvenation of Tissue Stem Cells by Intrinsic and Extrinsic Factors.. <i>Stem Cells Translational Medicine</i> , <b>2022</b> , 11, 231-238	6.9	0
3	Deciphering aging at three-dimensional genomic resolution <b>2022</b> , 100034		0
2	Emerging role of RNA m6A modification in aging regulation <b>2022</b> , 1,		0
1	Adenine base editing to mimic or correct disease mutations in rodents. <i>Protein and Cell</i> , <b>2018</b> , 9, 752-753.2		