

Hyongbum-henry Kim

List of Publications by Citations

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94
papers

4,987
citations

36
h-index

69
g-index

101
ext. papers

5,966
ext. citations

11.7
avg, IF

5.97
L-index

#	Paper	IF	Citations
94	A guide to genome engineering with programmable nucleases. <i>Nature Reviews Genetics</i> , 2014 , 15, 321-343	30.1	853
93	Gene disruption by cell-penetrating peptide-mediated delivery of Cas9 protein and guide RNA. <i>Genome Research</i> , 2014 , 24, 1020-7	9.7	442
92	Targeted genome editing in human cells with zinc finger nucleases constructed via modular assembly. <i>Genome Research</i> , 2009 , 19, 1279-88	9.7	344
91	In vivo high-throughput profiling of CRISPR-Cpf1 activity. <i>Nature Methods</i> , 2017 , 14, 153-159	21.6	199
90	Surrogate reporters for enrichment of cells with nuclease-induced mutations. <i>Nature Methods</i> , 2011 , 8, 941-3	21.6	164
89	Deep learning improves prediction of CRISPR-Cpf1 guide RNA activity. <i>Nature Biotechnology</i> , 2018 , 36, 239-241	44.5	137
88	CD49f enhances multipotency and maintains stemness through the direct regulation of OCT4 and SOX2. <i>Stem Cells</i> , 2012 , 30, 876-87	5.8	109
87	Sustained release of ascorbate-2-phosphate and dexamethasone from porous PLGA scaffolds for bone tissue engineering using mesenchymal stem cells. <i>Biomaterials</i> , 2003 , 24, 4671-9	15.6	107
86	Somatic Mutations in TSC1 and TSC2 Cause Focal Cortical Dysplasia. <i>American Journal of Human Genetics</i> , 2017 , 100, 454-472	11	102
85	CD31+ cells represent highly angiogenic and vasculogenic cells in bone marrow: novel role of nonendothelial CD31+ cells in neovascularization and their therapeutic effects on ischemic vascular disease. <i>Circulation Research</i> , 2010 , 107, 602-14	15.7	102
84	Dual angiogenic and neurotrophic effects of bone marrow-derived endothelial progenitor cells on diabetic neuropathy. <i>Circulation</i> , 2009 , 119, 699-708	16.7	101
83	Dexamethasone coordinately regulates angiopoietin-1 and VEGF: a mechanism of glucocorticoid-induced stabilization of blood-brain barrier. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 243-8	3.4	101
82	Surrogate reporter-based enrichment of cells containing RNA-guided Cas9 nuclease-induced mutations. <i>Nature Communications</i> , 2014 , 5, 3378	17.4	92
81	Human peripheral blood-derived CD31+ cells have robust angiogenic and vasculogenic properties and are effective for treating ischemic vascular disease. <i>Journal of the American College of Cardiology</i> , 2010 , 56, 593-607	15.1	91
80	Constriction of the mitochondrial inner compartment is a priming event for mitochondrial division. <i>Nature Communications</i> , 2017 , 8, 15754	17.4	80
79	Podoplanin-expressing cells derived from bone marrow play a crucial role in postnatal lymphatic neovascularization. <i>Circulation</i> , 2010 , 122, 1413-25	16.7	79
78	In vivo bone formation by human marrow stromal cells in biodegradable scaffolds that release dexamethasone and ascorbate-2-phosphate. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 332, 1053-60	3.4	76

77	Preassembled zinc-finger arrays for rapid construction of ZFNs. <i>Nature Methods</i> , 2011 , 8, 7	21.6	71
76	Predicting the efficiency of prime editing guide RNAs in human cells. <i>Nature Biotechnology</i> , 2021 , 39, 198-206	44.5	68
75	High-throughput analysis of the activities of xCas9, SpCas9-NG and SpCas9 at matched and mismatched target sequences in human cells. <i>Nature Biomedical Engineering</i> , 2020 , 4, 111-124	19	60
74	Prediction of the sequence-specific cleavage activity of Cas9 variants. <i>Nature Biotechnology</i> , 2020 , 38, 1328-1336	44.5	57
73	Brain Somatic Mutations in MTOR Disrupt Neuronal Ciliogenesis, Leading to Focal Cortical Dyslamination. <i>Neuron</i> , 2018 , 99, 83-97.e7	13.9	53
72	The effect of mineral trioxide aggregate on odontogenic differentiation in dental pulp stem cells. <i>Journal of Endodontics</i> , 2013 , 39, 242-8	4.7	53
71	SpCas9 activity prediction by DeepSpCas9, a deep learning-based model with high generalization performance. <i>Science Advances</i> , 2019 , 5, eaax9249	14.3	52
70	Pathological roles of the VEGF/SphK pathway in Niemann-Pick type C neurons. <i>Nature Communications</i> , 2014 , 5, 5514	17.4	52
69	Bone marrow mononuclear cells have neurovascular tropism and improve diabetic neuropathy. <i>Stem Cells</i> , 2009 , 27, 1686-96	5.8	52
68	Magnetic separation and antibiotics selection enable enrichment of cells with ZFN/TALEN-induced mutations. <i>PLoS ONE</i> , 2013 , 8, e56476	3.7	50
67	Angiotensin-2 stimulates blood flow recovery after femoral artery occlusion by inducing inflammation and arteriogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1989-95	9.4	49
66	Diabetic Mesenchymal Stem Cells Are Ineffective for Improving Limb Ischemia Due to Their Impaired Angiogenic Capability. <i>Cell Transplantation</i> , 2015 , 24, 1571-84	4	46
65	Multi-functional ceramic hybrid coatings on biodegradable AZ31 Mg implants: electrochemical, tribological and quantum chemical aspects for orthopaedic applications. <i>RSC Advances</i> , 2014 , 4, 24272	3.7	42
64	Designed nucleases for targeted genome editing. <i>Plant Biotechnology Journal</i> , 2016 , 14, 448-62	11.6	39
63	Doxycycline enhances survival and self-renewal of human pluripotent stem cells. <i>Stem Cell Reports</i> , 2014 , 3, 353-64	8	38
62	Alteration of synaptic activity-regulating genes underlying functional improvement by long-term exposure to an enriched environment in the adult brain. <i>Neurorehabilitation and Neural Repair</i> , 2013 , 27, 561-74	4.7	38
61	Cell-Penetrating Peptide-Mediated Delivery of Cas9 Protein and Guide RNA for Genome Editing. <i>Methods in Molecular Biology</i> , 2017 , 1507, 81-94	1.4	37
60	Interaction of mesenchymal stem cells and osteoblasts for in vitro osteogenesis. <i>Yonsei Medical Journal</i> , 2003 , 44, 187-97	3	37

59	Targeted Genome Engineering to Control VEGF Expression in Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells: Potential Implications for the Treatment of Myocardial Infarction. <i>Stem Cells Translational Medicine</i> , 2017 , 6, 1040-1051	6.9	36
58	Regulation of pluripotency and differentiation by deubiquitinating enzymes. <i>Cell Death and Differentiation</i> , 2016 , 23, 1257-64	12.7	36
57	Paired D10A Cas9 nickases are sometimes more efficient than individual nucleases for gene disruption. <i>Nucleic Acids Research</i> , 2018 , 46, e71	20.1	35
56	Effect of ionizing radiation induced damage of endothelial progenitor cells in vascular regeneration. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012 , 32, 343-52	9.4	34
55	Targeting mutant with CRISPR-Cas9 controls tumor growth. <i>Genome Research</i> , 2018 ,	9.7	33
54	Sequence-specific prediction of the efficiencies of adenine and cytosine base editors. <i>Nature Biotechnology</i> , 2020 , 38, 1037-1043	44.5	32
53	Electrochemical and in vitro bioactivity of polypyrrole/ceramic nanocomposite coatings on 316L SS bio-implants. <i>Materials Science and Engineering C</i> , 2014 , 43, 76-85	8.3	30
52	Emerging therapy for diabetic neuropathy: cell therapy targeting vessels and nerves. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2012 , 12, 168-78	2.2	30
51	Effective gene delivery into human stem cells with a cell-targeting Peptide-modified bio-reducible polymer. <i>Small</i> , 2015 , 11, 2069-79	11	27
50	Repair of Ischemic Injury by Pluripotent Stem Cell Based Cell Therapy without Teratoma through Selective Photosensitivity. <i>Stem Cell Reports</i> , 2015 , 5, 1067-1080	8	26
49	Hepatitis C virus entry is impaired by claudin-1 downregulation in diacylglycerol acyltransferase-1-deficient cells. <i>Journal of Virology</i> , 2014 , 88, 9233-44	6.6	26
48	GalNAc-T14 promotes metastasis through Wnt dependent HOXB9 expression in lung adenocarcinoma. <i>Oncotarget</i> , 2015 , 6, 41916-28	3.3	24
47	An electrochemical, in vitro bioactivity, and quantum chemical approach to nanostructured copolymer coatings for orthopedic applications. <i>Journal of Materials Science</i> , 2014 , 49, 4067-4080	4.3	23
46	Astroglial Activation by an Enriched Environment after Transplantation of Mesenchymal Stem Cells Enhances Angiogenesis after Hypoxic-Ischemic Brain Injury. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	23
45	Environmental enrichment enhances synaptic plasticity by internalization of striatal dopamine transporters. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 2122-2133	7.3	23
44	Novel genes and cellular pathways related to infection with adenovirus-36 as an obesity agent in human mesenchymal stem cells. <i>International Journal of Obesity</i> , 2012 , 36, 195-200	5.5	21
43	Recent developments and clinical studies utilizing engineered zinc finger nuclease technology. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 3819-30	10.3	20
42	Advances in bone marrow-derived cell therapy: CD31-expressing cells as next generation cardiovascular cell therapy. <i>Regenerative Medicine</i> , 2011 , 6, 335-49	2.5	20

41	Stability of zinc finger nuclease protein is enhanced by the proteasome inhibitor MG132. <i>PLoS ONE</i> , 2013 , 8, e54282	3.7	19
40	Off-target response of a Wip1 chemical inhibitor in skin keratinocytes. <i>Journal of Dermatological Science</i> , 2014 , 73, 125-34	4.3	18
39	Application of prime editing to the correction of mutations and phenotypes in adult mice with liver and eye diseases. <i>Nature Biomedical Engineering</i> , 2021 ,	19	18
38	Enrichment of cells with TALEN-induced mutations using surrogate reporters. <i>Methods</i> , 2014 , 69, 108-174.6	17	
37	Concise Review: Fate Determination of Stem Cells by Deubiquitinating Enzymes. <i>Stem Cells</i> , 2017 , 35, 9-16	5.8	16
36	Genome-scale screening of deubiquitinase subfamily identifies USP3 as a stabilizer of Cdc25A regulating cell cycle in cancer. <i>Cell Death and Differentiation</i> , 2020 , 27, 3004-3020	12.7	16
35	Environmental enrichment synergistically improves functional recovery by transplanted adipose stem cells in chronic hypoxic-ischemic brain injury. <i>Cell Transplantation</i> , 2013 , 22, 1553-68	4	16
34	CRISPR/Cas9 system as an innovative genetic engineering tool: Enhancements in sequence specificity and delivery methods. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2015 , 1856, 234-43	11.2	15
33	Early Immunomodulation by Intravenously Transplanted Mesenchymal Stem Cells Promotes Functional Recovery in Spinal Cord Injured Rats. <i>Cell Medicine</i> , 2011 , 2, 55-67	4.9	15
32	En bloc and segmental deletions of human XIST reveal X chromosome inactivation-involving RNA elements. <i>Nucleic Acids Research</i> , 2019 , 47, 3875-3887	20.1	15
31	An autophagy enhancer ameliorates diabetes of human IAPP-transgenic mice through clearance of amyloidogenic oligomer. <i>Nature Communications</i> , 2021 , 12, 183	17.4	15
30	Evaluation of chemically modified TiBMoBFe alloy surface: Electrochemical aspects and in vitro bioactivity on MG63 cells. <i>Applied Surface Science</i> , 2014 , 307, 52-61	6.7	14
29	Expression of short hairpin RNAs against the coxsackievirus B3 exerts potential antiviral effects in Cos-7 cells and in mice. <i>Virus Research</i> , 2007 , 125, 9-13	6.4	14
28	Elucidation of Relevant Neuroinflammation Mechanisms Using Gene Expression Profiling in Patients with Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2016 , 11, e0165290	3.7	14
27	LIN28A loss of function is associated with Parkinson's disease pathogenesis. <i>EMBO Journal</i> , 2019 , 38, e101196	13	14
26	Therapeutic application of the CRISPR system: current issues and new prospects. <i>Human Genetics</i> , 2019 , 138, 563-590	6.3	13
25	Deficiency in DGCR8-dependent canonical microRNAs causes infertility due to multiple abnormalities during uterine development in mice. <i>Scientific Reports</i> , 2016 , 6, 20242	4.9	13
24	Cell therapy with bone marrow cells for myocardial regeneration. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1897-911	8.4	13

23	Bone tissue engineering using marrow stromal cells. <i>Biotechnology and Bioprocess Engineering</i> , 2007 , 12, 48-53	3.1	12
22	Recording of elapsed time and temporal information about biological events using Cas9. <i>Cell</i> , 2021 , 184, 1047-1063.e23	56.2	12
21	Chemical Controllable Gene Drive in. <i>ACS Synthetic Biology</i> , 2020 , 9, 2362-2377	5.7	11
20	Rh D blood group conversion using transcription activator-like effector nucleases. <i>Nature Communications</i> , 2015 , 6, 7451	17.4	10
19	Genome engineering in human cells. <i>Methods in Enzymology</i> , 2014 , 546, 93-118	1.7	10
18	Dexamethasone increases angiopoietin-1 and quiescent hematopoietic stem cells: a novel mechanism of dexamethasone-induced hematoprotection. <i>FEBS Letters</i> , 2008 , 582, 3509-14	3.8	10
17	Generation of a more efficient prime editor 2 by addition of the Rad51 DNA-binding domain. <i>Nature Communications</i> , 2021 , 12, 5617	17.4	10
16	In Situ Pluripotency Factor Expression Promotes Functional Recovery From Cerebral Ischemia. <i>Molecular Therapy</i> , 2016 , 24, 1538-49	11.7	7
15	Generation of H508-CFTR T84 cell lines by CRISPR/Cas9-mediated genome editing. <i>Biotechnology Letters</i> , 2016 , 38, 2023-2034	3	6
14	In vivo gene correction with targeted sequence substitution through microhomology-mediated end joining. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 502, 116-122	3.4	6
13	Enhanced gene disruption by programmable nucleases delivered by a minicircle vector. <i>Gene Therapy</i> , 2014 , 21, 921-30	4	5
12	RanBPM: a potential therapeutic target for modulating diverse physiological disorders. <i>Drug Discovery Today</i> , 2017 , 22, 1816-1824	8.8	5
11	Prime editing enables precise genome editing in mouse liver and retina		5
10	Coxsackievirus B3 used as a gene therapy vector to express functional FGF2. <i>Gene Therapy</i> , 2012 , 19, 1159-65	4	4
9	Production of Mutated Porcine Embryos Using Zinc Finger Nucleases and a Reporter-based Cell Enrichment System. <i>Asian-Australasian Journal of Animal Sciences</i> , 2014 , 27, 324-9	2.4	3
8	outer hair cell gene editing ameliorates progressive hearing loss in dominant-negative murine model.. <i>Theranostics</i> , 2022 , 12, 2465-2482	12.1	3
7	SpCas9 activity prediction by DeepSpCas9, a deep learning-based model with unparalleled generalization performance		2
6	Scarless Enriched selection of Genome edited Human Pluripotent Stem Cells Using Induced Drug Resistance		1

5	Improving CRISPR tools by elucidating DNA repair. <i>Nature Biotechnology</i> , 2021 ,	44.5	1
4	Basic Principles and Clinical Applications of CRISPR-Based Genome Editing.. <i>Yonsei Medical Journal</i> , 2022 , 63, 105-113	3	0
3	Generation of mutation-corrected induced pluripotent stem cell lines derived from adrenoleukodystrophy patient by using homology directed repair.. <i>Stem Cell Research</i> , 2022 , 59, 102664 ^{1.6}	1.6	0
2	Programmable Nuclease-Based Integration into Novel Extragenic Genomic Safe Harbor Identified from Korean Population-Based CNV Analysis. <i>Molecular Therapy - Oncolytics</i> , 2019 , 14, 253-265	6.4	
1	Heroes of peer review: Hyongbum (Henry) Kim. <i>Genome Biology</i> , 2016 , 17, 200	18.3	