

Akitsu Hotta

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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.

72
papers

4,357
citations

30
h-index

66
g-index

77
ext. papers

5,302
ext. citations

9
avg, IF

5.27
L-index

#	Paper	IF	Citations
72	Stage-specific optimization of activin/nodal and BMP signaling promotes cardiac differentiation of mouse and human pluripotent stem cell lines. <i>Cell Stem Cell</i> , 2011 , 8, 228-40	18	865
71	Precise correction of the dystrophin gene in duchenne muscular dystrophy patient induced pluripotent stem cells by TALEN and CRISPR-Cas9. <i>Stem Cell Reports</i> , 2015 , 4, 143-154	8	388
70	Isolation of human iPS cells using EOS lentiviral vectors to select for pluripotency. <i>Nature Methods</i> , 2009 , 6, 370-6	21.6	234
69	Isolation of MECP2-null Rett Syndrome patient hiPS cells and isogenic controls through X-chromosome inactivation. <i>Human Molecular Genetics</i> , 2011 , 20, 2103-15	5.6	209
68	Targeted Disruption of HLA Genes via CRISPR-Cas9 Generates iPSCs with Enhanced Immune Compatibility. <i>Cell Stem Cell</i> , 2019 , 24, 566-578.e7	18	206
67	Direct comparison of autologous and allogeneic transplantation of iPSC-derived neural cells in the brain of a non-human primate. <i>Stem Cell Reports</i> , 2013 , 1, 283-92	8	196
66	Efficient and reproducible myogenic differentiation from human iPS cells: prospects for modeling Miyoshi Myopathy in vitro. <i>PLoS ONE</i> , 2013 , 8, e61540	3.7	150
65	The Src/c-Abl pathway is a potential therapeutic target in amyotrophic lateral sclerosis. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	134
64	Retroviral vector silencing during iPS cell induction: an epigenetic beacon that signals distinct pluripotent states. <i>Journal of Cellular Biochemistry</i> , 2008 , 105, 940-8	4.7	131
63	Hair follicle dermal stem cells regenerate the dermal sheath, repopulate the dermal papilla, and modulate hair type. <i>Developmental Cell</i> , 2014 , 31, 543-58	10.2	128
62	Constitutive heterochromatin reorganization during somatic cell reprogramming. <i>EMBO Journal</i> , 2011 , 30, 1778-89	13	116
61	Concordant but Varied Phenotypes among Duchenne Muscular Dystrophy Patient-Specific Myoblasts Derived using a Human iPSC-Based Model. <i>Cell Reports</i> , 2016 , 15, 2301-2312	10.6	101
60	Focal transplantation of human iPSC-derived glial-rich neural progenitors improves lifespan of ALS mice. <i>Stem Cell Reports</i> , 2014 , 3, 242-9	8	93
59	From Genomics to Gene Therapy: Induced Pluripotent Stem Cells Meet Genome Editing. <i>Annual Review of Genetics</i> , 2015 , 49, 47-70	14.5	89
58	Extracellular nanovesicles for packaging of CRISPR-Cas9 protein and sgRNA to induce therapeutic exon skipping. <i>Nature Communications</i> , 2020 , 11, 1334	17.4	83
57	Enhancing T Cell Receptor Stability in Rejuvenated iPSC-Derived T Cells Improves Their Use in Cancer Immunotherapy. <i>Cell Stem Cell</i> , 2018 , 23, 850-858.e4	18	69
56	EOS lentiviral vector selection system for human induced pluripotent stem cells. <i>Nature Protocols</i> , 2009 , 4, 1828-44	18.8	67

55	CRISPR-Cas3 induces broad and unidirectional genome editing in human cells. <i>Nature Communications</i> , 2019 , 10, 5302	17.4	66
54	Cell-type-specific genome editing with a microRNA-responsive CRISPR-Cas9 switch. <i>Nucleic Acids Research</i> , 2017 , 45, e118	20.1	60
53	Tissue-Engineered Vascular Grafts with Advanced Mechanical Strength from Human iPSCs. <i>Cell Stem Cell</i> , 2020 , 26, 251-261.e8	18	56
52	Calcium dysregulation contributes to neurodegeneration in FTLD patient iPSC-derived neurons. <i>Scientific Reports</i> , 2016 , 6, 34904	4.9	56
51	MECP2 isoform-specific vectors with regulated expression for Rett syndrome gene therapy. <i>PLoS ONE</i> , 2009 , 4, e6810	3.7	55
50	Efficient genomic correction methods in human iPS cells using CRISPR-Cas9 system. <i>Methods</i> , 2016 , 101, 27-35	4.6	45
49	In Vitro Disease Modeling of Hermansky-Pudlak Syndrome Type 2 Using Human Induced Pluripotent Stem Cell-Derived Alveolar Organoids. <i>Stem Cell Reports</i> , 2019 , 12, 431-440	8	43
48	Ataxia-telangiectasia mutated (ATM) deficiency decreases reprogramming efficiency and leads to genomic instability in iPS cells. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 407, 321-6	3.4	39
47	Delivery of full-length factor VIII using a piggyBac transposon vector to correct a mouse model of hemophilia A. <i>PLoS ONE</i> , 2014 , 9, e104957	3.7	38
46	Targeted gene correction of RUNX1 in induced pluripotent stem cells derived from familial platelet disorder with propensity to myeloid malignancy restores normal megakaryopoiesis. <i>Experimental Hematology</i> , 2015 , 43, 849-57	3.1	36
45	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. <i>Scientific Reports</i> , 2013 , 3, 1978	4.9	35
44	Genetic correction using engineered nucleases for gene therapy applications. <i>Development Growth and Differentiation</i> , 2014 , 56, 63-77	3	34
43	Production of anti-prion scFv-Fc fusion proteins by recombinant animal cells. <i>Journal of Bioscience and Bioengineering</i> , 2003 , 95, 231-238	3.3	29
42	Transplantation of neurons derived from human iPS cells cultured on collagen matrix into guinea-pig cochleae. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1766-1778	4.4	28
41	Reprogramming progeria fibroblasts re-establishes a normal epigenetic landscape. <i>Aging Cell</i> , 2017 , 16, 870-887	9.9	28
40	iPSC-Derived Platelets Depleted of HLA Class I Are Inert to Anti-HLA Class I and Natural Killer Cell Immunity. <i>Stem Cell Reports</i> , 2020 , 14, 49-59	8	28
39	A patient-derived iPSC model revealed oxidative stress increases facioscapulohumeral muscular dystrophy-causative DUX4. <i>Human Molecular Genetics</i> , 2018 , 27, 4024-4035	5.6	27
38	Minimizing off-Target Mutagenesis Risks Caused by Programmable Nucleases. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 24751-71	6.3	24

37	Cellular Reprogramming, Genome Editing, and Alternative CRISPR Cas9 Technologies for Precise Gene Therapy of Duchenne Muscular Dystrophy. <i>Stem Cells International</i> , 2017 , 2017, 8765154	5	23
36	Pluripotent Stem Cell Model of Nakajo-Nishimura Syndrome Untangles Proinflammatory Pathways Mediated by Oxidative Stress. <i>Stem Cell Reports</i> , 2018 , 10, 1835-1850	8	22
35	Retrovirus silencing by an epigenetic TRIM. <i>Cell</i> , 2007 , 131, 13-4	56.2	22
34	Srf destabilizes cellular identity by suppressing cell-type-specific gene expression programs. <i>Nature Communications</i> , 2018 , 9, 1387	17.4	18
33	Characterization of transient expression system for retroviral vector production. <i>Journal of Bioscience and Bioengineering</i> , 2006 , 101, 361-8	3.3	18
32	Site-specific randomization of the endogenous genome by a regulatable CRISPR-Cas9 piggyBac system in human cells. <i>Scientific Reports</i> , 2018 , 8, 310	4.9	17
31	A β -tubulin-based megakaryocyte maturation reporter system identifies novel drugs that promote platelet production. <i>Blood Advances</i> , 2018 , 2, 2262-2272	7.8	17
30	Comprehensive chemical secretory measurement of single cells trapped in a micro-droplet array with mass spectrometry. <i>RSC Advances</i> , 2015 , 5, 16968-16971	3.7	16
29	Sall1 transiently marks undifferentiated heart precursors and regulates their fate. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 92, 158-62	5.8	16
28	A novel ADPKD model using kidney organoids derived from disease-specific human iPSCs. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 529, 1186-1194	3.4	15
27	-Dependent Renal Cystogenesis in Human Induced Pluripotent Stem Cell-Derived Ureteric Bud/Collecting Duct Organoids. <i>Journal of the American Society of Nephrology: JASN</i> , 2020 , 31, 2355-2371	12.7	14
26	Induced Fetal Human Muscle Stem Cells with High Therapeutic Potential in a Mouse Muscular Dystrophy Model. <i>Stem Cell Reports</i> , 2020 , 15, 80-94	8	14
25	Characterization of hiPSC-Derived Muscle Progenitors Reveals Distinctive Markers for Myogenic Cell Purification Toward Cell Therapy. <i>Stem Cell Reports</i> , 2021 , 16, 883-898	8	14
24	An EWS-FLI1-Induced Osteosarcoma Model Unveiled a Crucial Role of Impaired Osteogenic Differentiation on Osteosarcoma Development. <i>Stem Cell Reports</i> , 2016 , 6, 592-606	8	12
23	Restoration of Dystrophin Protein Expression by Exon Skipping Utilizing CRISPR-Cas9 in Myoblasts Derived from DMD Patient iPS Cells. <i>Methods in Molecular Biology</i> , 2018 , 1828, 191-217	1.4	12
22	Efficient mRNA delivery system utilizing chimeric VSVG-L7Ae virus-like particles. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 505, 1097-1102	3.4	10
21	Human AK2 links intracellular bioenergetic redistribution to the fate of hematopoietic progenitors. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 497, 719-725	3.4	9
20	Genome Editing Gene Therapy for Duchenne Muscular Dystrophy. <i>Journal of Neuromuscular Diseases</i> , 2015 , 2, 343-355	5	9

19	Production of anti-CD2 chimeric antibody by recombinant animal cells. <i>Journal of Bioscience and Bioengineering</i> , 2004 , 98, 298-303	3.3	9
18	Beta-globin LCR and intron elements cooperate and direct spatial reorganization for gene therapy. <i>PLoS Genetics</i> , 2008 , 4, e1000051	6	8
17	Delivery of CRISPR-Cas tools for in vivo genome editing therapy: Trends and challenges.. <i>Journal of Controlled Release</i> , 2022 , 342, 345-361	11.7	7
16	Low immunogenicity of LNP allows repeated administrations of CRISPR-Cas9 mRNA into skeletal muscle in mice. <i>Nature Communications</i> , 2021 , 12, 7101	17.4	6
15	MAGI-2 orchestrates the localization of backbone proteins in the slit diaphragm of podocytes. <i>Kidney International</i> , 2021 , 99, 382-395	9.9	6
14	Dual inhibition of TMPRSS2 and Cathepsin B prevents SARS-CoV-2 infection in iPS cells. <i>Molecular Therapy - Nucleic Acids</i> , 2021 , 26, 1107-1114	10.7	5
13	Efficient ssODN-Mediated Targeting by Avoiding Cellular Inhibitory RNAs through Precomplexed CRISPR-Cas9/sgRNA Ribonucleoprotein. <i>Stem Cell Reports</i> , 2021 , 16, 985-996	8	5
12	Generation of hypoimmunogenic T cells from genetically engineered allogeneic human induced pluripotent stem cells. <i>Nature Biomedical Engineering</i> , 2021 , 5, 429-440	19	5
11	YY1 binds to regulatory element of chicken lysozyme and ovalbumin promoters. <i>Cytotechnology</i> , 2006 , 52, 159-70	2.2	2
10	Natural Killer Cell Activities Against iPSCs-Derived HLA-Knockout Platelets and Megakaryocytes Reveal Perfect Rejection Profiles for Allotransfusion. <i>Blood</i> , 2016 , 128, 3841-3841	2.2	2
9	Generation of a transgene-free iPSC line and genetically modified line from a facioscapulohumeral muscular dystrophy type 2 (FSHD2) patient with SMCHD1 p.Lys607Ter mutation. <i>Stem Cell Research</i> , 2020 , 47, 101884	1.6	1
8	Editing Cultured Human Cells: From Cell Lines to iPS Cells 2015 , 45-69		1
7	A muscle fatigue-like contractile decline was recapitulated using skeletal myotubes from Duchenne muscular dystrophy patient-derived iPSCs. <i>Cell Reports Medicine</i> , 2021 , 2, 100298	18	1
6	Expression dynamics of HAND1/2 in in vitro human cardiomyocyte differentiation. <i>Stem Cell Reports</i> , 2021 , 16, 1906-1922	8	1
5	Contractile Activity of Myotubes Derived from Human Induced Pluripotent Stem Cells: A Model of Duchenne Muscular Dystrophy. <i>Cells</i> , 2021 , 10,	7.9	1
4	Development of alternative gene transfer techniques for and gene therapy in a canine model. <i>Regenerative Therapy</i> , 2021 , 18, 347-354	3.7	1
3	Optimized electroporation of CRISPR-Cas9/gRNA ribonucleoprotein complex for selection-free homologous recombination in human pluripotent stem cells. <i>STAR Protocols</i> , 2021 , 2, 100965	1.4	0
2	Induced pluripotent stem cells19-33		

1 Chemical Control of iPS Cells. *Trends in the Sciences*, **2011**, 16, 62-65

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