

Shinya Yamanaka

List of Publications by Citations

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242
papers

74,777
citations

94
h-index

256
g-index

256
ext. papers

84,361
ext. citations

13.1
avg, IF

8.35
L-index

#	Paper	IF	Citations
242	Induction of pluripotent stem cells from mouse embryonic and adult fibroblast cultures by defined factors. <i>Cell</i> , 2006 , 126, 663-76	56.2	18363
241	Induction of pluripotent stem cells from adult human fibroblasts by defined factors. <i>Cell</i> , 2007 , 131, 861-72	56.2	14786
240	Generation of germline-competent induced pluripotent stem cells. <i>Nature</i> , 2007 , 448, 313-7	50.4	3548
239	The homeoprotein Nanog is required for maintenance of pluripotency in mouse epiblast and ES cells. <i>Cell</i> , 2003 , 113, 631-42	56.2	2547
238	Generation of induced pluripotent stem cells without Myc from mouse and human fibroblasts. <i>Nature Biotechnology</i> , 2008 , 26, 101-6	44.5	2239
237	Generation of mouse induced pluripotent stem cells without viral vectors. <i>Science</i> , 2008 , 322, 949-53	33.3	1595
236	A more efficient method to generate integration-free human iPS cells. <i>Nature Methods</i> , 2011 , 8, 409-12	21.6	1358
235	Suppression of induced pluripotent stem cell generation by the p53-p21 pathway. <i>Nature</i> , 2009 , 460, 1132-5	50.4	1073
234	Generation of pluripotent stem cells from adult mouse liver and stomach cells. <i>Science</i> , 2008 , 321, 699-703	33.3	841
233	Induction of pluripotent stem cells from fibroblast cultures. <i>Nature Protocols</i> , 2007 , 2, 3081-9	18.8	822
232	Autologous Induced Stem-Cell-Derived Retinal Cells for Macular Degeneration. <i>New England Journal of Medicine</i> , 2017 , 376, 1038-1046	59.2	785
231	Nanog is the gateway to the pluripotent ground state. <i>Cell</i> , 2009 , 138, 722-37	56.2	785
230	Variation in the safety of induced pluripotent stem cell lines. <i>Nature Biotechnology</i> , 2009 , 27, 743-5	44.5	702
229	Induced pluripotent stem cell technology: a decade of progress. <i>Nature Reviews Drug Discovery</i> , 2017 , 16, 115-130	64.1	701
228	Hypoxia enhances the generation of induced pluripotent stem cells. <i>Cell Stem Cell</i> , 2009 , 5, 237-41	18	608
227	Strategies and new developments in the generation of patient-specific pluripotent stem cells. <i>Cell Stem Cell</i> , 2007 , 1, 39-49	18	606
226	A fresh look at iPS cells. <i>Cell</i> , 2009 , 137, 13-7	56.2	580

225	Nuclear reprogramming to a pluripotent state by three approaches. <i>Nature</i> , 2010 , 465, 704-12	50.4	579
224	Induced pluripotent stem cells: past, present, and future. <i>Cell Stem Cell</i> , 2012 , 10, 678-684	18	564
223	Modeling Alzheimer β disease with iPSCs reveals stress phenotypes associated with intracellular A β and differential drug responsiveness. <i>Cell Stem Cell</i> , 2013 , 12, 487-96	18	539
222	mTOR is essential for growth and proliferation in early mouse embryos and embryonic stem cells. <i>Molecular and Cellular Biology</i> , 2004 , 24, 6710-8	4.8	480
221	A decade of transcription factor-mediated reprogramming to pluripotency. <i>Nature Reviews Molecular Cell Biology</i> , 2016 , 17, 183-93	48.7	468
220	An efficient nonviral method to generate integration-free human-induced pluripotent stem cells from cord blood and peripheral blood cells. <i>Stem Cells</i> , 2013 , 31, 458-66	5.8	451
219	Modeling familial Alzheimer β disease with induced pluripotent stem cells. <i>Human Molecular Genetics</i> , 2011 , 20, 4530-9	5.6	443
218	Directed and systematic differentiation of cardiovascular cells from mouse induced pluripotent stem cells. <i>Circulation</i> , 2008 , 118, 498-506	16.7	424
217	Therapeutic potential of appropriately evaluated safe-induced pluripotent stem cells for spinal cord injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12704-9	11.5	420
216	Reactivation of the paternal X chromosome in early mouse embryos. <i>Science</i> , 2004 , 303, 666-9	33.3	417
215	Elite and stochastic models for induced pluripotent stem cell generation. <i>Nature</i> , 2009 , 460, 49-52	50.4	410
214	Screening ethnically diverse human embryonic stem cells identifies a chromosome 20 minimal amplicon conferring growth advantage. <i>Nature Biotechnology</i> , 2011 , 29, 1132-44	44.5	406
213	Drug screening for ALS using patient-specific induced pluripotent stem cells. <i>Science Translational Medicine</i> , 2012 , 4, 145ra104	17.5	390
212	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
211	Grafted human-induced pluripotent stem-cell-derived neurospheres promote motor functional recovery after spinal cord injury in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16825-30	11.5	388
210	A novel efficient feeder-free culture system for the derivation of human induced pluripotent stem cells. <i>Scientific Reports</i> , 2014 , 4, 3594	4.9	357
209	Generation of retinal cells from mouse and human induced pluripotent stem cells. <i>Neuroscience Letters</i> , 2009 , 458, 126-31	3.3	354
208	Steps toward safe cell therapy using induced pluripotent stem cells. <i>Circulation Research</i> , 2013 , 112, 523-33	15.7	308

207	Direct reprogramming of somatic cells is promoted by maternal transcription factor Glis1. <i>Nature</i> , 2011 , 474, 225-9	50.4	304
206	iPS cells: a game changer for future medicine. <i>EMBO Journal</i> , 2014 , 33, 409-17	13	301
205	Promotion of direct reprogramming by transformation-deficient Myc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 14152-7	11.5	297
204	Premature termination of reprogramming in vivo leads to cancer development through altered epigenetic regulation. <i>Cell</i> , 2014 , 156, 663-77	56.2	286
203	Role of ERas in promoting tumour-like properties in mouse embryonic stem cells. <i>Nature</i> , 2003 , 423, 541-5	50.4	285
202	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2015 , 17, 178-94	18	276
201	Transient activation of c-MYC expression is critical for efficient platelet generation from human induced pluripotent stem cells. <i>Journal of Experimental Medicine</i> , 2010 , 207, 2817-30	16.6	255
200	Efficient and scalable purification of cardiomyocytes from human embryonic and induced pluripotent stem cells by VCAM1 surface expression. <i>PLoS ONE</i> , 2011 , 6, e23657	3.7	234
199	Fbx15 is a novel target of Oct3/4 but is dispensable for embryonic stem cell self-renewal and mouse development. <i>Molecular and Cellular Biology</i> , 2003 , 23, 2699-708	4.8	233
198	Donor-dependent variations in hepatic differentiation from human-induced pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12538-43	11.5	231
197	Monitoring and robust induction of nephrogenic intermediate mesoderm from human pluripotent stem cells. <i>Nature Communications</i> , 2013 , 4, 1367	17.4	229
196	Model for long QT syndrome type 2 using human iPS cells demonstrates arrhythmogenic characteristics in cell culture. <i>DMM Disease Models and Mechanisms</i> , 2012 , 5, 220-30	4.1	228
195	Expandable megakaryocyte cell lines enable clinically applicable generation of platelets from human induced pluripotent stem cells. <i>Cell Stem Cell</i> , 2014 , 14, 535-48	18	220
194	Pre-evaluated safe human iPSC-derived neural stem cells promote functional recovery after spinal cord injury in common marmoset without tumorigenicity. <i>PLoS ONE</i> , 2012 , 7, e52787	3.7	217
193	Complete genetic correction of ips cells from Duchenne muscular dystrophy. <i>Molecular Therapy</i> , 2010 , 18, 386-93	11.7	202
192	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
191	miRNAs regulate SIRT1 expression during mouse embryonic stem cell differentiation and in adult mouse tissues. <i>Aging</i> , 2010 , 2, 415-31	5.6	193
190	Induced pluripotent stem cells: opportunities and challenges. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011 , 366, 2198-207	5.8	191

189	In vitro pharmacologic testing using human induced pluripotent stem cell-derived cardiomyocytes. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 385, 497-502	3.4	190
188	Toward the development of a global induced pluripotent stem cell library. <i>Cell Stem Cell</i> , 2013 , 13, 382-418	4.8	188
187	Ultrastructural maturation of human-induced pluripotent stem cell-derived cardiomyocytes in a long-term culture. <i>Circulation Journal</i> , 2013 , 77, 1307-14	2.9	182
186	Rethinking differentiation: stem cells, regeneration, and plasticity. <i>Cell</i> , 2014 , 157, 110-9	56.2	181
185	Induced pluripotent stem cells in medicine and biology. <i>Development (Cambridge)</i> , 2013 , 140, 2457-61	6.6	179
184	Distinct signaling events downstream of mTOR cooperate to mediate the effects of amino acids and insulin on initiation factor 4E-binding proteins. <i>Molecular and Cellular Biology</i> , 2005 , 25, 2558-72	4.8	178
183	Generation of mouse-induced pluripotent stem cells with plasmid vectors. <i>Nature Protocols</i> , 2010 , 5, 418-28	18.8	174
182	Pluripotent Stem Cell-Based Cell Therapy-Promise and Challenges. <i>Cell Stem Cell</i> , 2020 , 27, 523-531	18	170
181	iPS cell technologies: significance and applications to CNS regeneration and disease. <i>Molecular Brain</i> , 2014 , 7, 22	4.5	162
180	Induction and isolation of vascular cells from human induced pluripotent stem cells--brief report. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 1100-3	9.4	162
179	Differentiation-defective phenotypes revealed by large-scale analyses of human pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20569-74	11.5	159
178	Dynamic regulation of human endogenous retroviruses mediates factor-induced reprogramming and differentiation potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12426-31	11.5	157
177	Induced Pluripotent Stem Cells 10 Years Later: For Cardiac Applications. <i>Circulation Research</i> , 2017 , 120, 1958-1968	15.7	155
176	The let-7/LIN-41 pathway regulates reprogramming to human induced pluripotent stem cells by controlling expression of prodifferentiation genes. <i>Cell Stem Cell</i> , 2014 , 14, 40-52	18	151
175	Recent stem cell advances: induced pluripotent stem cells for disease modeling and stem cell-based regeneration. <i>Circulation</i> , 2010 , 122, 80-7	16.7	149
174	The effects of cardioactive drugs on cardiomyocytes derived from human induced pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 387, 482-8	3.4	144
173	Efficient Detection and Purification of Cell Populations Using Synthetic MicroRNA Switches. <i>Cell Stem Cell</i> , 2015 , 16, 699-711	18	140
172	Induced pluripotent stem cell-derived hepatocytes have the functional and proliferative capabilities needed for liver regeneration in mice. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3120-6	15.9	139

171	The Src/c-Abl pathway is a potential therapeutic target in amyotrophic lateral sclerosis. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	134
170	Anti- $\text{A}\beta$ drug screening platform using human iPSC cell-derived neurons for the treatment of Alzheimer's disease. <i>PLoS ONE</i> , 2011 , 6, e25788	3.7	134
169	Generation of skeletal muscle stem/progenitor cells from murine induced pluripotent stem cells. <i>FASEB Journal</i> , 2010 , 24, 2245-53	0.9	133
168	iPS cells: a source of cardiac regeneration. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 327-32	5.8	129
167	Epigenetic Variation between Human Induced Pluripotent Stem Cell Lines Is an Indicator of Differentiation Capacity. <i>Cell Stem Cell</i> , 2016 , 19, 341-54	18	127
166	Adipogenic differentiation of human induced pluripotent stem cells: comparison with that of human embryonic stem cells. <i>FEBS Letters</i> , 2009 , 583, 1029-33	3.8	124
165	Gingival fibroblasts as a promising source of induced pluripotent stem cells. <i>PLoS ONE</i> , 2010 , 5, e12743	3.7	118
164	Pluripotency and nuclear reprogramming. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008 , 363, 2079-87	5.8	118
163	MHC matching improves engraftment of iPSC-derived neurons in non-human primates. <i>Nature Communications</i> , 2017 , 8, 385	17.4	116
162	Biosynthesis of apolipoprotein B48-containing lipoproteins. Regulation by novel post-transcriptional mechanisms. <i>Journal of Biological Chemistry</i> , 1996 , 271, 2353-6	5.4	114
161	Roles of Sall4 in the generation of pluripotent stem cells from blastocysts and fibroblasts. <i>Genes To Cells</i> , 2009 , 14, 683-94	2.3	113
160	Induced Pluripotent Stem Cells and Their Use in Human Models of Disease and Development. <i>Physiological Reviews</i> , 2019 , 99, 79-114	47.9	111
159	Generation of naive-like porcine-induced pluripotent stem cells capable of contributing to embryonic and fetal development. <i>Stem Cells and Development</i> , 2013 , 22, 473-82	4.4	110
158	Angiotensin blockade inhibits activation of mitogen-activated protein kinases in rat balloon-injured artery. <i>Circulation</i> , 1998 , 97, 1731-7	16.7	108
157	Enhanced engraftment, proliferation, and therapeutic potential in heart using optimized human iPSC-derived cardiomyocytes. <i>Scientific Reports</i> , 2016 , 6, 19111	4.9	105
156	Cell Therapy Using Human Induced Pluripotent Stem Cell-Derived Renal Progenitors Ameliorates Acute Kidney Injury in Mice. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 980-92	6.9	103
155	Transcriptional repression and DNA hypermethylation of a small set of ES cell marker genes in male germline stem cells. <i>BMC Developmental Biology</i> , 2006 , 6, 34	3.1	103
154	Broader implications of defining standards for the pluripotency of iPSCs. <i>Cell Stem Cell</i> , 2009 , 4, 200-1; author reply 202	18	101

153	Induction and enhancement of cardiac cell differentiation from mouse and human induced pluripotent stem cells with cyclosporin-A. <i>PLoS ONE</i> , 2011 , 6, e16734	3.7	100
152	Maturation, not initiation, is the major roadblock during reprogramming toward pluripotency from human fibroblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12172-9	11.5	99
151	Generation and characterization of human induced pluripotent stem cells. <i>Current Protocols in Stem Cell Biology</i> , 2009 , Chapter 4, Unit 4A.2	2.8	98
150	Direct cardiac reprogramming: progress and challenges in basic biology and clinical applications. <i>Circulation Research</i> , 2015 , 116, 1378-91	15.7	95
149	Immunogenicity of induced pluripotent stem cells. <i>Circulation Research</i> , 2011 , 109, 720-1	15.7	95
148	Derivation conditions impact X-inactivation status in female human induced pluripotent stem cells. <i>Cell Stem Cell</i> , 2012 , 11, 91-9	18	94
147	Induction of pluripotency in human somatic cells via a transient state resembling primitive streak-like mesendoderm. <i>Nature Communications</i> , 2014 , 5, 3678	17.4	93
146	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
145	Reprogramming somatic cells towards pluripotency by defined factors. <i>Current Opinion in Biotechnology</i> , 2007 , 18, 467-73	11.4	93
144	Aggregation of embryonic stem cells induces Nanog repression and primitive endoderm differentiation. <i>Journal of Cell Science</i> , 2004 , 117, 5681-6	5.3	93
143	Calcium transients closely reflect prolonged action potentials in iPSC models of inherited cardiac arrhythmia. <i>Stem Cell Reports</i> , 2014 , 3, 269-81	8	92
142	Intracellular signaling pathways regulating pluripotency of embryonic stem cells. <i>Current Stem Cell Research and Therapy</i> , 2006 , 1, 103-11	3.6	92
141	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
140	Characterization of dendritic cells and macrophages generated by directed differentiation from mouse induced pluripotent stem cells. <i>Stem Cells</i> , 2009 , 27, 1021-31	5.8	89
139	Efficient and rapid induction of human iPSCs/ESCs into nephrogenic intermediate mesoderm using small molecule-based differentiation methods. <i>PLoS ONE</i> , 2014 , 9, e84881	3.7	86
138	Epigenetic regulation in pluripotent stem cells: a key to breaking the epigenetic barrier. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013 , 368, 20120292	5.8	85
137	Induced pluripotent stem cells and reprogramming: seeing the science through the hype. <i>Nature Reviews Genetics</i> , 2009 , 10, 878-83	30.1	85
136	Involvement of ER stress in dysmyelination of Pelizaeus-Merzbacher Disease with PLP1 missense mutations shown by iPSC-derived oligodendrocytes. <i>Stem Cell Reports</i> , 2014 , 2, 648-61	8	84

135	Generation of human melanocytes from induced pluripotent stem cells. <i>PLoS ONE</i> , 2011 , 6, e16182	3.7	84
134	Differential roles for Sox15 and Sox2 in transcriptional control in mouse embryonic stem cells. <i>Journal of Biological Chemistry</i> , 2005 , 280, 24371-9	5.4	84
133	Transplantation of mouse induced pluripotent stem cells into the cochlea. <i>NeuroReport</i> , 2009 , 20, 1250-4.	4.7	82
132	Differential membrane localization of ERas and Rheb, two Ras-related proteins involved in the phosphatidylinositol 3-kinase/mTOR pathway. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32768-74	5.4	82
131	Differential activation of cardiac c-jun amino-terminal kinase and extracellular signal-regulated kinase in angiotensin II-mediated hypertension. <i>Circulation Research</i> , 1998 , 83, 752-60	15.7	82
130	A developmental framework for induced pluripotency. <i>Development (Cambridge)</i> , 2015 , 142, 3274-85	6.6	81
129	Tsix RNA and the germline factor, PRDM14, link X reactivation and stem cell reprogramming. <i>Molecular Cell</i> , 2013 , 52, 805-18	17.6	79
128	Human induced pluripotent stem cells on autologous feeders. <i>PLoS ONE</i> , 2009 , 4, e8067	3.7	79
127	Efficient reprogramming of human and mouse primary extra-embryonic cells to pluripotent stem cells. <i>Genes To Cells</i> , 2009 , 14, 1395-404	2.3	77
126	Induced pluripotent stem cells from patients with human fibrodysplasia ossificans progressiva show increased mineralization and cartilage formation. <i>Orphanet Journal of Rare Diseases</i> , 2013 , 8, 190	4.2	76
125	New advances in iPS cell research do not obviate the need for human embryonic stem cells. <i>Cell Stem Cell</i> , 2007 , 1, 367-8	18	73
124	Specific lectin biomarkers for isolation of human pluripotent stem cells identified through array-based glycomic analysis. <i>Cell Research</i> , 2011 , 21, 1551-63	24.7	71
123	Patient-specific pluripotent stem cells become even more accessible. <i>Cell Stem Cell</i> , 2010 , 7, 1-2	18	71
122	Concise Review: Laying the Groundwork for a First-In-Human Study of an Induced Pluripotent Stem Cell-Based Intervention for Spinal Cord Injury. <i>Stem Cells</i> , 2019 , 37, 6-13	5.8	71
121	The human gene encoding the lectin-type oxidized LDL receptor (OLR1) is a novel member of the natural killer gene complex with a unique expression profile. <i>Genomics</i> , 1998 , 54, 191-9	4.3	69
120	Induction of pluripotency by defined factors. <i>Experimental Cell Research</i> , 2010 , 316, 2565-70	4.2	66
119	Tudor domain containing 12 (TDRD12) is essential for secondary PIWI interacting RNA biogenesis in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16492-7	11.5	64
118	To be immunogenic, or not to be: that's the iPSC question. <i>Cell Stem Cell</i> , 2013 , 12, 385-6	18	62

117	Bioengineered myocardium derived from induced pluripotent stem cells improves cardiac function and attenuates cardiac remodeling following chronic myocardial infarction in rats. <i>Stem Cells Translational Medicine</i> , 2012 , 1, 430-7	6.9	62
116	Induction of primordial germ cells from mouse induced pluripotent stem cells derived from adult hepatocytes. <i>Molecular Reproduction and Development</i> , 2010 , 77, 802-11	2.6	62
115	Cell-autonomous correction of ring chromosomes in human induced pluripotent stem cells. <i>Nature</i> , 2014 , 507, 99-103	50.4	60
114	Enhanced Therapeutic Effects of Human iPS Cell Derived-Cardiomyocyte by Combined Cell-Sheets with Omental Flap Technique in Porcine Ischemic Cardiomyopathy Model. <i>Scientific Reports</i> , 2017 , 7, 8824	4.9	59
113	Integration-free iPS cells engineered using human artificial chromosome vectors. <i>PLoS ONE</i> , 2011 , 6, e25961	3.7	58
112	Cell line-dependent differentiation of induced pluripotent stem cells into cardiomyocytes in mice. <i>Cardiovascular Research</i> , 2010 , 88, 314-23	9.9	58
111	MicroRNA-302 switch to identify and eliminate undifferentiated human pluripotent stem cells. <i>Scientific Reports</i> , 2016 , 6, 32532	4.9	57
110	Harmonizing standards for producing clinical-grade therapies from pluripotent stem cells. <i>Nature Biotechnology</i> , 2014 , 32, 724-6	44.5	54
109	Contribution of extracellular signal-regulated kinase to angiotensin II-induced transforming growth factor-beta1 expression in vascular smooth muscle cells. <i>Hypertension</i> , 1999 , 34, 126-31	8.5	54
108	Cardiac mitogen-activated protein kinase activities are chronically increased in stroke-prone hypertensive rats. <i>Hypertension</i> , 1998 , 31, 50-6	8.5	53
107	Inducible Transgene Expression in Human iPS Cells Using Versatile All-in-One piggyBac Transposons. <i>Methods in Molecular Biology</i> , 2016 , 1357, 111-31	1.4	52
106	Hybrid Cellular Metabolism Coordinated by Zic3 and Esrrb Synergistically Enhances Induction of Naive Pluripotency. <i>Cell Metabolism</i> , 2017 , 25, 1103-1117.e6	24.6	51
105	Hyperediting of multiple cytidines of apolipoprotein B mRNA by APOBEC-1 requires auxiliary protein(s) but not a mooring sequence motif. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11506-10	5.4	51
104	Human induced pluripotent stem cell-derived ectodermal precursor cells contribute to hair follicle morphogenesis in vivo. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 1479-88	4.3	50
103	Rapid and deep profiling of human induced pluripotent stem cell proteome by one-shot NanoLC-MS/MS analysis with meter-scale monolithic silica columns. <i>Journal of Proteome Research</i> , 2013 , 12, 214-21	5.6	50
102	Magnesium supplementation prevents experimental chronic cyclosporine a nephrotoxicity via renin-angiotensin system independent mechanism. <i>Transplantation</i> , 2002 , 74, 784-91	1.8	47
101	Role of hypomagnesemia in chronic cyclosporine nephropathy. <i>Transplantation</i> , 2002 , 73, 340-7	1.8	47
100	Computational image analysis of colony and nuclear morphology to evaluate human induced pluripotent stem cells. <i>Scientific Reports</i> , 2014 , 4, 6996	4.9	46

99	Global splicing pattern reversion during somatic cell reprogramming. <i>Cell Reports</i> , 2013 , 5, 357-66	10.6	46
98	Patient-Specific Human Induced Pluripotent Stem Cell Model Assessed with Electrical Pacing Validates S107 as a Potential Therapeutic Agent for Catecholaminergic Polymorphic Ventricular Tachycardia. <i>PLoS ONE</i> , 2016 , 11, e0164795	3.7	46
97	Induced pluripotent stem cells from CINCA syndrome patients as a model for dissecting somatic mosaicism and drug discovery. <i>Blood</i> , 2012 , 120, 1299-308	2.2	45
96	BMP-SMAD-ID promotes reprogramming to pluripotency by inhibiting p16/INK4A-dependent senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13057-13062	11.5	44
95	Nat1 promotes translation of specific proteins that induce differentiation of mouse embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 340-345	11.5	43
94	Induced 2C Expression and Implantation-Competent Blastocyst-like Cysts from Primed Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2019 , 13, 485-498	8	43
93	SOX2 O-GlcNAcylation alters its protein-protein interactions and genomic occupancy to modulate gene expression in pluripotent cells. <i>ELife</i> , 2016 , 5, e10647	8.9	42
92	Sirt1 plays an important role in mediating greater functionality of human ES/iPS-derived vascular endothelial cells. <i>Atherosclerosis</i> , 2010 , 212, 42-7	3.1	41
91	Recent policies that support clinical application of induced pluripotent stem cell-based regenerative therapies. <i>Regenerative Therapy</i> , 2016 , 4, 36-47	3.7	40
90	Evolutionarily conserved non-AUG translation initiation in NAT1/p97/DAP5 (EIF4G2). <i>Genomics</i> , 2005 , 85, 360-71	4.3	40
89	Germline development from human pluripotent stem cells toward disease modeling of infertility. <i>Fertility and Sterility</i> , 2012 , 97, 1250-9	4.8	39
88	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
87	Inhibition of nuclear factor-kappaB activation by pyrrolidine dithiocarbamate prevents chronic FK506 nephropathy. <i>Kidney International</i> , 2003 , 63, 306-14	9.9	37
86	Extracellular signal-regulated kinase and c-Jun NH2-terminal kinase activities are continuously and differentially increased in aorta of hypertensive rats. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 236, 199-204	3.4	36
85	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. <i>Scientific Reports</i> , 2013 , 3, 1978	4.9	35
84	A chemical probe that labels human pluripotent stem cells. <i>Cell Reports</i> , 2014 , 6, 1165-1174	10.6	34
83	Structure-based discovery of NANOG variant with enhanced properties to promote self-renewal and reprogramming of pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4666-71	11.5	32
82	Autotaxin-mediated lipid signaling intersects with LIF and BMP signaling to promote the naive pluripotency transcription factor program. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12478-12483	11.5	32

81	Orderly hematopoietic development of induced pluripotent stem cells via Flk-1(+) hemoangiogenic progenitors. <i>Journal of Cellular Physiology</i> , 2009 , 221, 367-77	7	32
80	Essential roles of ECAT15-2/Dppa2 in functional lung development. <i>Molecular and Cellular Biology</i> , 2011 , 31, 4366-78	4.8	32
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