

Angel Raya

List of Publications by Citations

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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.

119
papers

10,728
citations

43
h-index

103
g-index

129
ext. papers

11,980
ext. citations

10.3
avg, IF

5.68
L-index

#	Paper	IF	Citations
119	Efficient and rapid generation of induced pluripotent stem cells from human keratinocytes. <i>Nature Biotechnology</i> , 2008 , 26, 1276-84	44.5	1126
118	Zebrafish heart regeneration occurs by cardiomyocyte dedifferentiation and proliferation. <i>Nature</i> , 2010 , 464, 606-9	50.4	957
117	Linking the p53 tumour suppressor pathway to somatic cell reprogramming. <i>Nature</i> , 2009 , 460, 1140-4	50.4	906
116	Notch promotes epithelial-mesenchymal transition during cardiac development and oncogenic transformation. <i>Genes and Development</i> , 2004 , 18, 99-115	12.6	707
115	Disease-corrected haematopoietic progenitors from Fanconi anaemia induced pluripotent stem cells. <i>Nature</i> , 2009 , 460, 53-9	50.4	580
114	Interplay of LRRK2 with chaperone-mediated autophagy. <i>Nature Neuroscience</i> , 2013 , 16, 394-406	25.5	438
113	Disease-specific phenotypes in dopamine neurons from human iPS-based models of genetic and sporadic Parkinson's disease. <i>EMBO Molecular Medicine</i> , 2012 , 4, 380-95	12	431
112	Generation of induced pluripotent stem cells from human cord blood using OCT4 and SOX2. <i>Cell Stem Cell</i> , 2009 , 5, 353-7	18	334
111	Lipoic acid improves nerve blood flow, reduces oxidative stress, and improves distal nerve conduction in experimental diabetic neuropathy. <i>Diabetes Care</i> , 1995 , 18, 1160-7	14.6	326
110	Epicardial retinoid X receptor alpha is required for myocardial growth and coronary artery formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18455-60	11.5	281
109	Activation of Notch signaling pathway precedes heart regeneration in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100 Suppl 1, 11889-95	11.5	266
108	Notch activity acts as a sensor for extracellular calcium during vertebrate left-right determination. <i>Nature</i> , 2004 , 427, 121-8	50.4	234
107	MKP3 mediates the cellular response to FGF8 signalling in the vertebrate limb. <i>Nature Cell Biology</i> , 2003 , 5, 513-9	23.4	232
106	Retinoic acid signalling links left-right asymmetric patterning and bilaterally symmetric somitogenesis in the zebrafish embryo. <i>Nature</i> , 2005 , 435, 165-71	50.4	232
105	Nanog binds to Smad1 and blocks bone morphogenetic protein-induced differentiation of embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10294-10299	11.5	197
104	Left-right asymmetry in the vertebrate embryo: from early information to higher-level integration. <i>Nature Reviews Genetics</i> , 2006 , 7, 283-93	30.1	186
103	Early ERK1/2 activation promotes DRP1-dependent mitochondrial fission necessary for cell reprogramming. <i>Nature Communications</i> , 2016 , 7, 11124	17.4	157

102	Patient-Specific iPSC-Derived Astrocytes Contribute to Non-Cell-Autonomous Neurodegeneration in Parkinson's Disease. <i>Stem Cell Reports</i> , 2019 , 12, 213-229	8	154
101	Notch activity induces Nodal expression and mediates the establishment of left-right asymmetry in vertebrate embryos. <i>Genes and Development</i> , 2003 , 17, 1213-8	12.6	152
100	CRISPR/Cas9-Based Engineering of the Epigenome. <i>Cell Stem Cell</i> , 2017 , 21, 431-447	18	147
99	Identification of p53 regulators by genome-wide functional analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 3456-61	11.5	129
98	Noncanonical Wnt signaling regulates midline convergence of organ primordia during zebrafish development. <i>Genes and Development</i> , 2005 , 19, 164-75	12.6	129
97	Embryonic stem cell-like cells derived from adult human testis. <i>Human Reproduction</i> , 2010 , 25, 158-67	5.7	111
96	Regulation of primary cilia formation and left-right patterning in zebrafish by a noncanonical Wnt signaling mediator, <i>duboraya</i> . <i>Nature Genetics</i> , 2006 , 38, 1316-22	36.3	108
95	Efficient generation of A9 midbrain dopaminergic neurons by lentiviral delivery of LMX1A in human embryonic stem cells and induced pluripotent stem cells. <i>Human Gene Therapy</i> , 2012 , 23, 56-69	4.8	98
94	Aberrant epigenome in iPSC-derived dopaminergic neurons from Parkinson's disease patients. <i>EMBO Molecular Medicine</i> , 2015 , 7, 1529-46	12	95
93	Human progenitor cells derived from cardiac adipose tissue ameliorate myocardial infarction in rodents. <i>Journal of Molecular and Cellular Cardiology</i> , 2010 , 49, 771-80	5.8	95
92	The local microenvironment limits the regenerative potential of the mouse neonatal heart. <i>Science Advances</i> , 2018 , 4, eaao5553	14.3	84
91	Reprogramming of human fibroblasts to induced pluripotent stem cells under xeno-free conditions. <i>Stem Cells</i> , 2010 , 28, 36-44	5.8	77
90	Tbx2 and Tbx3 regulate the dynamics of cell proliferation during heart remodeling. <i>PLoS ONE</i> , 2007 , 2, e398	3.7	69
89	Rem2 GTPase maintains survival of human embryonic stem cells as well as enhancing reprogramming by regulating p53 and cyclin D1. <i>Genes and Development</i> , 2010 , 24, 561-73	12.6	66
88	Characterization of a novel type of serine/threonine kinase that specifically phosphorylates the human goodpasture antigen. <i>Journal of Biological Chemistry</i> , 1999 , 274, 12642-9	5.4	66
87	Enhancing glycolysis attenuates Parkinson's disease progression in models and clinical databases. <i>Journal of Clinical Investigation</i> , 2019 , 129, 4539-4549	15.9	63
86	Genome engineering through CRISPR/Cas9 technology in the human germline and pluripotent stem cells. <i>Human Reproduction Update</i> , 2016 , 22, 411-9	15.8	63
85	Brief report: efficient generation of hematopoietic precursors and progenitors from human pluripotent stem cell lines. <i>Stem Cells</i> , 2011 , 29, 1158-64	5.8	60

84	The limb identity gene Tbx5 promotes limb initiation by interacting with Wnt2b and Fgf10. <i>Development (Cambridge)</i> , 2002 , 129, 5161-70	6.6	58
83	Goodpasture antigen-binding protein, the kinase that phosphorylates the goodpasture antigen, is an alternatively spliced variant implicated in autoimmune pathogenesis. <i>Journal of Biological Chemistry</i> , 2000 , 275, 40392-9	5.4	56
82	Maintenance of embryonic stem cell pluripotency by Nanog-mediated reversal of mesoderm specification. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2006 , 3 Suppl 1, S114-22		55
81	Transcriptomics approach to investigate zebrafish heart regeneration. <i>Journal of Cardiovascular Medicine</i> , 2010 , 11, 369-80	1.9	48
80	A protocol describing the genetic correction of somatic human cells and subsequent generation of iPS cells. <i>Nature Protocols</i> , 2010 , 5, 647-60	18.8	46
79	Interferon decreases serum lipid peroxidation products of hepatitis C patients. <i>Free Radical Biology and Medicine</i> , 1994 , 16, 131-3	7.8	44
78	MicroRNA alterations in iPSC-derived dopaminergic neurons from Parkinson disease patients. <i>Neurobiology of Aging</i> , 2018 , 69, 283-291	5.6	43
77	Generation of cardiomyocytes from new human embryonic stem cell lines derived from poor-quality blastocysts. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2008 , 73, 127-35	3.9	43
76	Decreased glutathione peroxidase activity in sciatic nerve of alloxan-induced diabetic mice and its correlation with blood glucose levels. <i>Neurochemical Research</i> , 1993 , 18, 893-6	4.6	42
75	miles-apart-Mediated regulation of cell-fibronectin interaction and myocardial migration in zebrafish. <i>Nature Clinical Practice Cardiovascular Medicine</i> , 2007 , 4 Suppl 1, S77-82		41
74	The zebrafish as a model of heart regeneration. <i>Cloning and Stem Cells</i> , 2004 , 6, 345-51		41
73	Sequential transfer of left-right information during vertebrate embryo development. <i>Current Opinion in Genetics and Development</i> , 2004 , 14, 575-81	4.9	39
72	Using iPS Cells toward the Understanding of Parkinson's Disease. <i>Journal of Clinical Medicine</i> , 2015 , 4, 548-66	5.1	36
71	Defining the Minimal Factors Required for Erythropoiesis through Direct Lineage Conversion. <i>Cell Reports</i> , 2016 , 15, 2550-62	10.6	34
70	Neoinnervation and neovascularization of acellular pericardial-derived scaffolds in myocardial infarcts. <i>Stem Cell Research and Therapy</i> , 2015 , 6, 108	8.3	33
69	Patient-Specific iPSC-Derived Endothelial Cells Provide Long-Term Phenotypic Correction of Hemophilia A. <i>Stem Cell Reports</i> , 2018 , 11, 1391-1406	8	33
68	Proteomics Analysis of Extracellular Matrix Remodeling During Zebrafish Heart Regeneration. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 1745-1755	7.6	29
67	Unveiling the establishment of left-right asymmetry in the chick embryo. <i>Mechanisms of Development</i> , 2004 , 121, 1043-54	1.7	29

66	Glutathione system of human retina: enzymatic conjugation of lipid peroxidation products. <i>Free Radical Biology and Medicine</i> , 1993 , 14, 549-51	7.8	29
65	Eph-ephrin signaling modulated by polymerization and condensation of receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13188-13193	11.5	28
64	Human iPSC modelling of a familial form of atrial fibrillation reveals a gain of function of If and ICaL in patient-derived cardiomyocytes. <i>Cardiovascular Research</i> , 2020 , 116, 1147-1160	9.9	27
63	Traction forces at the cytokinetic ring regulate cell division and polyploidy in the migrating zebrafish epicardium. <i>Nature Materials</i> , 2019 , 18, 1015-1023	27	26
62	Engineered Macroscale Cardiac Constructs Elicit Human Myocardial Tissue-like Functionality. <i>Stem Cell Reports</i> , 2019 , 13, 207-220	8	26
61	The Small GTPase RAC1/CED-10 Is Essential in Maintaining Dopaminergic Neuron Function and Survival Against β Synuclein-Induced Toxicity. <i>Molecular Neurobiology</i> , 2018 , 55, 7533-7552	6.2	25
60	Direct Conversion of Fibroblasts to Megakaryocyte Progenitors. <i>Cell Reports</i> , 2016 , 17, 671-683	10.6	25
59	Activity and High-Order Effective Connectivity Alterations in Sanfilippo C Patient-Specific Neuronal Networks. <i>Stem Cell Reports</i> , 2015 , 5, 546-57	8	25
58	Comparative study of human embryonic stem cells (hESC) and human induced pluripotent stem cells (hiPSC) as a treatment for retinal dystrophies. <i>Molecular Therapy - Methods and Clinical Development</i> , 2016 , 3, 16010	6.4	24
57	4-Hydroxynonenal, a lipid peroxidation product, induces relaxation of human cerebral arteries. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994 , 14, 693-6	7.3	23
56	Using enhanced number and brightness to measure protein oligomerization dynamics in live cells. <i>Nature Protocols</i> , 2019 , 14, 616-638	18.8	20
55	iPS Cell Cultures from a Gerstmann-Strüssler-Scheinker Patient with the Y218N PRNP Mutation Recapitulate tau Pathology. <i>Molecular Neurobiology</i> , 2018 , 55, 3033-3048	6.2	18
54	CRISPR/Cas9-mediated generation of a tyrosine hydroxylase reporter iPSC line for live imaging and isolation of dopaminergic neurons. <i>Scientific Reports</i> , 2019 , 9, 6811	4.9	16
53	Cyclin A1 is essential for setting the pluripotent state and reducing tumorigenicity of induced pluripotent stem cells. <i>Stem Cells and Development</i> , 2012 , 21, 2891-9	4.4	15
52	Insights into the establishment of left-right asymmetries in vertebrates. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2008 , 84, 81-94		15
51	Modeling the genetic complexity of Parkinson's disease by targeted genome edition in iPS cells. <i>Current Opinion in Genetics and Development</i> , 2017 , 46, 123-131	4.9	14
50	Ablation of Dido3 compromises lineage commitment of stem cells in vitro and during early embryonic development. <i>Cell Death and Differentiation</i> , 2012 , 19, 132-43	12.7	14
49	Reprogramming Captures the Genetic and Tumorigenic Properties of Neurofibromatosis Type 1 Plexiform Neurofibromas. <i>Stem Cell Reports</i> , 2019 , 12, 411-426	8	13

48	Long-Term Engraftment of Human Cardiomyocytes Combined with Biodegradable Microparticles Induces Heart Repair. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019 , 370, 761-771	4.7	13
47	Prostaglandin EP2 Receptors Mediate Mesenchymal Stromal Cell-Neuroprotective Effects on Dopaminergic Neurons. <i>Molecular Neurobiology</i> , 2018 , 55, 4763-4776	6.2	13
46	Generation of iPSCs from genetically corrected Brca2 hypomorphic cells: implications in cell reprogramming and stem cell therapy. <i>Stem Cells</i> , 2014 , 32, 436-46	5.8	13
45	GATA2 Promotes Hematopoietic Development and Represses Cardiac Differentiation of Human Mesoderm. <i>Stem Cell Reports</i> , 2019 , 13, 515-529	8	12
44	Update on the Pathogenic Implications and Clinical Potential of microRNAs in Cardiac Disease. <i>BioMed Research International</i> , 2015 , 2015, 105620	3	12
43	Molecular characterization of ten F8 splicing mutations in RNA isolated from patient's leucocytes: assessment of in silico prediction tools accuracy. <i>Haemophilia</i> , 2015 , 21, 249-57	3.3	12
42	Whole-genome DNA hyper-methylation in iPSC-derived dopaminergic neurons from Parkinson's disease patients. <i>Clinical Epigenetics</i> , 2019 , 11, 108	7.7	11
41	Turning human epidermis into pancreatic endoderm. <i>Review of Diabetic Studies</i> , 2010 , 7, 158-67	3.6	10
40	Modulation of the endocrine transcriptional program by targeting histone modifiers of the H3K27me3 mark. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2018 , 1861, 473-480	6	9
39	Long-term single-cell lineage tracing of deep structures using three-photon activation. <i>Light: Science and Applications</i> , 2016 , 5, e16084	16.7	8
38	Molecular markers of putative spermatogonial stem cells in the domestic cat. <i>Reproduction in Domestic Animals</i> , 2017 , 52 Suppl 2, 177-186	1.6	8
37	Phenytoin-induced glutathione depletion in rat peripheral nerve. <i>Free Radical Biology and Medicine</i> , 1995 , 19, 665-7	7.8	8
36	Prevention of the acute neurotoxic effects of phenytoin on rat peripheral nerve by H7, an inhibitor of protein kinase C. <i>Toxicology</i> , 1992 , 75, 249-56	4.4	8
35	Generation of six multiple sclerosis patient-derived induced pluripotent stem cell lines. <i>Stem Cell Research</i> , 2017 , 24, 155-159	1.6	7
34	Derivation of human embryonic stem cells at the Center of Regenerative Medicine in Barcelona. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2010 , 46, 356-66	2.6	7
33	Temperature dependence of the toxic effects of phenytoin on peripheral neuromuscular function of the rat tail. <i>Neurotoxicology and Teratology</i> , 1990 , 12, 627-31	3.9	7
32	Long-Term Labeling of Hippocampal Neural Stem Cells by a Lentiviral Vector. <i>Frontiers in Molecular Neuroscience</i> , 2018 , 11, 415	6.1	7
31	Generation of integration-free induced pluripotent stem cell lines derived from two patients with X-linked Alport syndrome (XLAS). <i>Stem Cell Research</i> , 2017 , 25, 291-295	1.6	6

30	Preclinical Safety Evaluation of Allogeneic Induced Pluripotent Stem Cell-Based Therapy in a Swine Model of Myocardial Infarction. <i>Tissue Engineering - Part C: Methods</i> , 2017 , 23, 736-744	2.9	6
29	Integration-free induced pluripotent stem cells derived from a patient with autosomal recessive Alport syndrome (ARAS). <i>Stem Cell Research</i> , 2017 , 25, 1-5	1.6	5
28	Stem cell research in Spain: if only they were windmills. <i>Cell Stem Cell</i> , 2009 , 4, 483-6	18	5
27	Nerve conduction velocity decrease and synaptic transmission alterations in caffeine-treated rats. <i>Neurotoxicology and Teratology</i> , 1994 , 16, 11-5	3.9	5
26	Cell therapy with hiPSC-derived RPE cells and RPCs prevents visual function loss in a rat model of retinal degeneration. <i>Molecular Therapy - Methods and Clinical Development</i> , 2021 , 20, 688-702	6.4	5
25	Fate predetermination of cardiac myocytes during zebrafish heart regeneration. <i>Open Biology</i> , 2017 , 7,	7	4
24	Cationic Carbosilane Dendrimers Prevent Abnormal β Synuclein Accumulation in Parkinson's Disease Patient-Specific Dopamine Neurons. <i>Biomacromolecules</i> , 2021 , 22, 4582-4591	6.9	3
23	Trabeculated Myocardium in Hypertrophic Cardiomyopathy: Clinical Consequences. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
22	Expression of the T85A mutant of zebrafish aquaporin 3b improves post-thaw survival of cryopreserved early mammalian embryos. <i>Zygote</i> , 2016 , 24, 839-847	1.6	3
21	Advanced cell-based modeling of the royal disease: characterization of the mutated F9 mRNA. <i>Journal of Thrombosis and Haemostasis</i> , 2017 , 15, 2188-2197	15.4	2
20	Induced Pluripotency and Gene Editing in Fanconi Anemia. <i>Current Gene Therapy</i> , 2017 , 16, 321-328	4.3	2
19	Induced Pluripotent Stem Cell-Based Studies of Parkinson's Disease: Challenges and Promises. <i>CNS and Neurological Disorders - Drug Targets</i> , 2013 , 999, 29-30	2.6	2
18	Stem cells therapy for regenerative medicine: Principles of present and future practice. <i>Journal of Biomedical Science and Engineering</i> , 2014 , 07, 49-57	0.7	2
17	Atypical cyclin P regulates cancer cell stemness through activation of the WNT pathway. <i>Cellular Oncology (Dordrecht)</i> , 2021 , 44, 1273-1286	7.2	2
16	Evaluation of the Spanish population coverage of a prospective HLA haplobank of induced pluripotent stem cells. <i>Stem Cell Research and Therapy</i> , 2021 , 12, 233	8.3	2
15	Parkinson's disease patient-specific neuronal networks carrying the LRRK2 G2019S mutation unveil early functional alterations that predate neurodegeneration. <i>Npj Parkinson's Disease</i> , 2021 , 7, 55	9.7	2
14	Transplantation of Human Induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelium in a Swine Model of Geographic Atrophy. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
13	EBCOG position statement: ethics of stem cell research. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2020 , 247, 244-245	2.4	1

12	New developments in stem-cell research	152-163		1
11	Alterations in the antioxidant defense of peripheral nervous tissue following acute ethanol administration. <i>Biochemical Society Transactions</i> , 1993 , 21, 92S		5.1	1
10	Proteomics analysis of extracellular matrix remodeling during zebrafish heart regeneration			1
9	Patient-specific iPSC-derived cellular models of LGMDR1. <i>Stem Cell Research</i> , 2021 , 53, 102333		1.6	1
8	Inborn errors of metabolism: Lessons from iPSC models. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2021 , 1		10.5	1
7	Consensus Statement of European Societies of Gene and Cell Therapy on the Reported Birth of Genome-Edited Babies in China. <i>Human Gene Therapy</i> , 2018 , 29, 1337-1338		4.8	1
6	Porcine iPSC Generation: Testing Different Protocols to a Successful Application. <i>Methods in Molecular Biology</i> , 2021 , 1		1.4	0
5	Altered regulation of BRCA1 exon 11 splicing is associated with breast cancer risk in carriers of BRCA1 pathogenic variants. <i>Human Mutation</i> , 2021 , 42, 1488-1502		4.7	0
4	Modeling iPSC-derived human neurofibroma-like tumors in mice uncovers the heterogeneity of Schwann cells within plexiform neurofibromas.. <i>Cell Reports</i> , 2022 , 38, 110385		10.6	0
3	Pluripotent Stem Cell Banks 2018 , 337-367			
2	Induction of ectopic limb outgrowth in chick with FGF-8 2005 , 99-105			
1	Maintenance of Embryonic Stem Cell Pluripotency by Nanog-Mediated Dedifferentiation of Committed Mesoderm Progenitors 2009 , 37-53			