Angel Raya

List of Publications by Year
in descending order

122 papers	12,949 citations	53789 45 h-index	23530 111 g-index
129 all docs	129 docs citations	129 times ranked	18152 citing authors

#	Article	IF	Citations
1	Modeling iPSC-derived human neurofibroma-like tumors in mice uncovers the heterogeneity of Schwann cells within plexiform neurofibromas. Cell Reports, 2022, 38, 110385.	6.4	19
2	Diversifying stem cell debates: Including Muslim contexts and perspectives. Stem Cell Reports, 2022, , .	4.8	2
3	Engineering and Assessing Cardiac Tissue Complexity. International Journal of Molecular Sciences, 2021, 22, 1479.	4.1	13
4	Cell therapy with hiPSC-derived RPE cells and RPCs prevents visual function loss in a rat model of retinal degeneration. Molecular Therapy - Methods and Clinical Development, 2021, 20, 688-702.	4.1	22
5	Evaluation of the Spanish population coverage of a prospective HLA haplobank of induced pluripotent stem cells. Stem Cell Research and Therapy, 2021, 12, 233.	5.5	15
6	Patient-specific iPSC-derived cellular models of LGMDR1. Stem Cell Research, 2021, 53, 102333.	0.7	8
7	Parkinsonâ€™s disease patient-specific neuronal networks carrying the LRRK2 G2019S mutation unveil early functional alterations that predate neurodegeneration. Npj Parkinson's Disease, 2021, 7, 55.	5.3	11
8	Inborn errors of metabolism: Lessons from iPSC models. Reviews in Endocrine and Metabolic Disorders, 2021, 22, 1189-1200.	5.7	10
9	Altered regulation of <i>BRCA1</i> exon 11 splicing is associated with breast cancer risk in carriers of <i>BRCA1</i> pathogenic variants. Human Mutation, 2021, 42, 1488-1502.	2.5	7
10	Transplantation of Human Induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelium in a Swine Model of Geographic Atrophy. International Journal of Molecular Sciences, 2021, 22, 10497.	4.1	10
11	Cationic Carbosilane Dendrimers Prevent Abnormal Î±-Synuclein Accumulation in Parkinsonâ€™s Disease Patient-Specific Dopamine Neurons. Biomacromolecules, 2021, 22, 4582-4591.	5.4	12
12	Atypical cyclin P regulates cancer cell stemness through activation of the WNT pathway. Cellular Oncology (Dordrecht), 2021, 44, 1273-1286.	4.4	8
13	Porcine iPSC Generation: Testing Different Protocols to a Successful Application. Methods in Molecular Biology, 2021, , 1.	0.9	1
14	Human iPSC modelling of a familial form of atrial fibrillation reveals a gain of function of If and ICaL in patient-derived cardiomyocytes. Cardiovascular Research, 2020, 116, 1147-1160.	3.8	50
15	Trabeculated Myocardium in Hypertrophic Cardiomyopathy: Clinical Consequences. Journal of Clinical Medicine, 2020, 9, 3171.	2.4	5
16	EBCOG position statement: ethics of stem cell research. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2020, 247, 244-245.	1.1	1
17	GATA2 Promotes Hematopoietic Development and Represses Cardiac Differentiation of Human Mesoderm. Stem Cell Reports, 2019, 13, 515-529.	4.8	27
18	Whole-genome DNA hyper-methylation in iPSC-derived dopaminergic neurons from Parkinsonâ€™s disease patients. Clinical Epigenetics, 2019, 11, 108.	4.1	16

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19	Engineered Macroscale Cardiac Constructs Elicit Human Myocardial Tissue-like Functionality. Stem Cell Reports, 2019, 13, 207-220.	4.8	47
20	Patient-Specific iPSC-Derived Astrocytes Contribute to Non-Cell-Autonomous Neurodegeneration in Parkinson's Disease. Stem Cell Reports, 2019, 12, 213-229.	4.8	250
21	Using enhanced number and brightness to measure protein oligomerization dynamics in live cells. Nature Protocols, 2019, 14, 616-638.	12.0	36
22	Proteomics Analysis of Extracellular Matrix Remodeling During Zebrafish Heart Regeneration. Molecular and Cellular Proteomics, 2019, 18, 1745-1755.	3.8	51
23	Traction forces at the cytokinetic ring regulate cell division and polyploidy in the migrating zebrafish epicardium. Nature Materials, 2019, 18, 1015-1023.	27.5	40
24	CRISPR/Cas9-mediated generation of a tyrosine hydroxylase reporter iPSC line for live imaging and isolation of dopaminergic neurons. Scientific Reports, 2019, 9, 6811.	3.3	22
25	Reprogramming Captures the Genetic and Tumorigenic Properties of Neurofibromatosis Type 1 Plexiform Neurofibromas. Stem Cell Reports, 2019, 12, 411-426.	4.8	28
26	Long-Term Engraftment of Human Cardiomyocytes Combined with Biodegradable Microparticles Induces Heart Repair. Journal of Pharmacology and Experimental Therapeutics, 2019, 370, 761-771.	2.5	22
27	Enhancing glycolysis attenuates Parkinsonâ€™s disease progression in models and clinical databases. Journal of Clinical Investigation, 2019, 129, 4539-4549.	8.2	159
28	The Small GTPase RAC1/CED-10 Is Essential in Maintaining Dopaminergic Neuron Function and Survival Against Î±-Synuclein-Induced Toxicity. Molecular Neurobiology, 2018, 55, 7533-7552.	4.0	40
29	The local microenvironment limits the regenerative potential of the mouse neonatal heart. Science Advances, 2018, 4, eaao5553.	10.3	124
30	Modulation of the endocrine transcriptional program by targeting histone modifiers of the H3K27me3 mark. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2018, 1861, 473-480.	1.9	14
31	iPS Cell Cultures from a Gerstmann-StrÃussler-Scheinker Patient with the Y218N PRNP Mutation Recapitulate tau Pathology. Molecular Neurobiology, 2018, 55, 3033-3048.	4.0	27
32	Prostaglandin EP2 Receptors Mediate Mesenchymal Stromal Cell-Neuroprotective Effects on Dopaminergic Neurons. Molecular Neurobiology, 2018, 55, 4763-4776.	4.0	18
33	Patient-Specific iPSC-Derived Endothelial Cells Provide Long-Term Phenotypic Correction of Hemophilia A. Stem Cell Reports, 2018, 11, 1391-1406.	4.8	46
34	Consensus Statement of European Societies of Gene and Cell Therapy on the Reported Birth of Genome-Edited Babies in China. Human Gene Therapy, 2018, 29, 1337-1338.	2.7	3
35	Long-Term Labeling of Hippocampal Neural Stem Cells by a Lentiviral Vector. Frontiers in Molecular Neuroscience, 2018, 11, 415.	2.9	9
36	Pluripotent Stem Cell Banks. , 2018, , 337-367.		0

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37	MicroRNA alterations in iPSC-derived dopaminergic neurons from Parkinson disease patients. Neurobiology of Aging, 2018, 69, 283-291.	3.1	55
38	CRISPR/Cas9-Based Engineering of the Epigenome. Cell Stem Cell, 2017, 21, 431-447.	11.1	215
39	Advanced cellâ€based modeling of the royal disease: characterization of the mutated F9mRNA. Journal of Thrombosis and Haemostasis, 2017, 15, 2188-2197.	3.8	6
40	Generation of six multiple sclerosis patient-derived induced pluripotent stem cell lines. Stem Cell Research, 2017, 24, 155-159.	0.7	10
41	Modeling the genetic complexity of Parkinson's disease by targeted genome edition in iPS cells. Current Opinion in Genetics and Development, 2017, 46, 123-131.	3.3	16
42	Eph-ephrin signaling modulated by polymerization and condensation of receptors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13188-13193.	7.1	47
43	Generation of integration-free induced pluripotent stem cell lines derived from two patients with X-linked Alport syndrome (XLAS). Stem Cell Research, 2017, 25, 291-295.	0.7	13
44	Integration-free induced pluripotent stem cells derived from a patient with autosomal recessive Alport syndrome (ARAS). Stem Cell Research, 2017, 25, 1-5.	0.7	8
45	Preclinical Safety Evaluation of Allogeneic Induced Pluripotent Stem Cell-Based Therapy in a Swine Model of Myocardial Infarction. Tissue Engineering - Part C: Methods, 2017, 23, 736-744.	2.1	10
46	Fate predetermination of cardiac myocytes during zebrafish heart regeneration. Open Biology, 2017, 7, 170116.	3.6	7
47	Molecular markers of putative spermatogonial stem cells in the domestic cat. Reproduction in Domestic Animals, 2017, 52, 177-186.	1.4	9
48	Induced Pluripotency and Gene Editing in Fanconi Anemia. Current Gene Therapy, 2017, 16, 321-328.	2.0	3
49	Expression of the T85A mutant of zebrafish aquaporin 3b improves post-thaw survival of cryopreserved early mammalian embryos. Zygote, 2016, 24, 839-847.	1.1	4
50	Genome engineering through CRISPR/Cas9 technology in the human germline and pluripotent stem cells. Human Reproduction Update, 2016, 22, 411-419.	10.8	93
51	Defining the minimal factors required for erythropoiesis through direct lineage conversion. Experimental Hematology, 2016, 44, S52-S53.	0.4	0
52	Comparative study of human embryonic stem cells (hESC) and human induced pluripotent stem cells (hiPSC) as a treatment for retinal dystrophies. Molecular Therapy - Methods and Clinical Development, 2016, 3, 16010.	4.1	27
53	Direct Conversion of Fibroblasts to Megakaryocyte Progenitors. Cell Reports, 2016, 17, 671-683.	6.4	31
54	Long-term in vivo single-cell lineage tracing of deep structures using three-photon activation. Light: Science and Applications, 2016, 5, e16084-e16084.	16.6	11

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55	Early ERK1/2 activation promotes DRP1-dependent mitochondrial fission necessary for cell reprogramming. Nature Communications, 2016, 7, 11124.	12.8	223
56	Defining the Minimal Factors Required for Erythropoiesis through Direct Lineage Conversion. Cell Reports, 2016, 15, 2550-2562.	6.4	48
57	179. Correcting the Bleeding Phenotype in Hemophilia Ausing Lentivirally FVIII-Corrected Endothelial Cells Differentiated from Hemophilic Induced Pluripotent Stem Cell (iPSC). Molecular Therapy, 2015, 23, S71-S72.	8.2	0
58	Aberrant epigenome in <scp>iPSC</scp> â€derived dopaminergic neurons from Parkinson's disease patients. EMBO Molecular Medicine, 2015, 7, 1529-1546.	6.9	117
59	Using iPS Cells toward the Understanding of Parkinsonâ€™s Disease. Journal of Clinical Medicine, 2015, 4, 548-566.	2.4	47
60	Update on the Pathogenic Implications and Clinical Potential of microRNAs in Cardiac Disease. BioMed Research International, 2015, 2015, 1-15.	1.9	13
61	Activity and High-Order Effective Connectivity Alterations in Sanfilippo C Patient-Specific Neuronal Networks. Stem Cell Reports, 2015, 5, 546-557.	4.8	31
62	Neoinnervation and neovascularization of acellular pericardial-derived scaffolds in myocardial infarcts. Stem Cell Research and Therapy, 2015, 6, 108.	5.5	41
63	Molecular characterization of ten F8 splicing mutations in RNA isolated from patient's leucocytes: assessment of in silico prediction tools accuracy. Haemophilia, 2015, 21, 249-257.	2.1	12
64	Generation of iPSCs from Genetically Corrected <i>Brca2</i> Hypomorphic Cells: Implications in Cell Reprogramming and Stem Cell Therapy. Stem Cells, 2014, 32, 436-446.	3.2	15
65	Stem cells therapy for regenerative medicine: Principles of present and future practice. Journal of Biomedical Science and Engineering, 2014, 07, 49-57.	0.4	2
66	Interplay of LRRK2 with chaperone-mediated autophagy. Nature Neuroscience, 2013, 16, 394-406.	14.8	515
67	Induced Pluripotent Stem Cell-Based Studies of Parkinson's Disease: Challenges and Promises. CNS and Neurological Disorders - Drug Targets, 2013, 999, 29-30.	1.4	5
68	Cyclin A₁ Is Essential for Setting the Pluripotent State and Reducing Tumorigenicity of Induced Pluripotent Stem Cells. Stem Cells and Development, 2012, 21, 2891-2899.	2.1	19
69	Ablation of Dido3 compromises lineage commitment of stem cells in vitro and during early embryonic development. Cell Death and Differentiation, 2012, 19, 132-143.	11.2	23
70	Efficient Generation of A9 Midbrain Dopaminergic Neurons by Lentiviral Delivery of LMX1A in Human Embryonic Stem Cells and Induced Pluripotent Stem Cells. Human Gene Therapy, 2012, 23, 56-69.	2.7	111
71	Diseaseâ€specific phenotypes in dopamine neurons from human iPSâ€based models of genetic and sporadic Parkinson's disease. EMBO Molecular Medicine, 2012, 4, 380-395.	6.9	501
72	Brief Report: Efficient Generation of Hematopoietic Precursors and Progenitors from Human Pluripotent Stem Cell Lines. Stem Cells, 2011, 29, 1158-1164.	3.2	69

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73	Reprogramming of Human Fibroblasts to Induced Pluripotent Stem Cells under Xeno-free Conditions Â. Stem Cells, 2010, 28, 36-44.	3.2	92
74	Transcriptomics approach to investigate zebrafish heart regeneration. Journal of Cardiovascular Medicine, 2010, 11, 369-380.	1.5	54
75	Derivation of human embryonic stem cells at the Center of Regenerative Medicine in Barcelona. In Vitro Cellular and Developmental Biology - Animal, 2010, 46, 356-366.	1.5	7
76	Zebrafish heart regeneration occurs by cardiomyocyte dedifferentiation and proliferation. Nature, 2010, 464, 606-609.	27.8	1,187
77	A protocol describing the genetic correction of somatic human cells and subsequent generation of iPS cells. Nature Protocols, 2010, 5, 647-660.	12.0	52
78	Rem2 GTPase maintains survival of human embryonic stem cells as well as enhancing reprogramming by regulating p53 and cyclin D1. Genes and Development, 2010, 24, 561-573.	5.9	76
79	Embryonic stem cell-like cells derived from adult human testis. Human Reproduction, 2010, 25, 158-167.	0.9	131
80	Human progenitor cells derived from cardiac adipose tissue ameliorate myocardial infarction in rodents. Journal of Molecular and Cellular Cardiology, 2010, 49, 771-780.	1.9	104
81	Turning Human Epidermis Into Pancreatic Endoderm. Review of Diabetic Studies, 2010, 7, 158-167.	1.3	13
82	Disease-corrected haematopoietic progenitors from Fanconi anaemia induced pluripotent stem cells. Nature, 2009, 460, 53-59.	27.8	660
83	Linking the p53 tumour suppressor pathway to somatic cell reprogramming. Nature, 2009, 460, 1140-1144.	27.8	1,030
84	Stem Cell Research in Spain: If Only They Were Windmills â€¦. Cell Stem Cell, 2009, 4, 483-486.	11.1	5
85	Generation of Induced Pluripotent Stem Cells from Human Cord Blood Using OCT4 and SOX2. Cell Stem Cell, 2009, 5, 353-357.	11.1	392
86	Maintenance of Embryonic Stem Cell Pluripotency by Nanog-Mediated Dedifferentiation of Committed Mesoderm Progenitors. , 2009, , 37-53.		0
87	Insights into the establishment of leftâ€"right asymmetries in vertebrates. Birth Defects Research Part C: Embryo Today Reviews, 2008, 84, 81-94.	3.6	16
88	Efficient and rapid generation of induced pluripotent stem cells from human keratinocytes. Nature Biotechnology, 2008, 26, 1276-1284.	17.5	1,275
89	Generation of Cardiomyocytes from New Human Embryonic Stem Cell Lines Derived from Poor-quality Blastocysts. Cold Spring Harbor Symposia on Quantitative Biology, 2008, 73, 127-135.	1.1	46
90	miles-apart-Mediated regulation of cellâ€"fibronectin interaction and myocardial migration in zebrafish. Nature Clinical Practice Cardiovascular Medicine, 2007, 4, S77-S82.	3.3	45

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91	Tbx2 and Tbx3 Regulate the Dynamics of Cell Proliferation during Heart Remodeling. PLoS ONE, 2007, 2, e398.	2.5	82
92	Maintenance of embryonic stem cell pluripotency by Nanog-mediated reversal of mesoderm specification. Nature Clinical Practice Cardiovascular Medicine, 2006, 3, S114-S122.	3.3	58
93	Regulation of primary cilia formation and left-right patterning in zebrafish by a noncanonical Wnt signaling mediator, duboraya. Nature Genetics, 2006, 38, 1316-1322.	21.4	117
94	Leftâ€"right asymmetry in the vertebrate embryo: from early information to higher-level integration. Nature Reviews Genetics, 2006, 7, 283-293.	16.3	200
95	Nanog binds to Smad1 and blocks bone morphogenetic protein-induced differentiation of embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10294-10299.	7.1	226
96	Retinoic acid signalling links leftâ€"right asymmetric patterning and bilaterally symmetric somitogenesis in the zebrafish embryo. Nature, 2005, 435, 165-171.	27.8	256
97	Induction of ectopic limb outgrowth in chick with FGF-8. , 2005, , 99-105.		0
98	Noncanonical Wnt signaling regulates midline convergence of organ primordia during zebrafish development. Genes and Development, 2005, 19, 164-175.	5.9	146
99	Epicardial retinoid X receptor Â is required for myocardial growth and coronary artery formation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18455-18460.	7.1	320
100	The Zebrafish as a Model of Heart Regeneration. Cloning and Stem Cells, 2004, 6, 345-351.	2.6	45
101	Identification of p53 regulators by genome-wide functional analysis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3456-3461.	7.1	139
102	Notch activity acts as a sensor for extracellular calcium during vertebrate leftâ€"right determination. Nature, 2004, 427, 121-128.	27.8	255
103	Unveiling the establishment of leftâ€"right asymmetry in the chick embryo. Mechanisms of Development, 2004, 121, 1043-1054.	1.7	35
104	Notch promotes epithelial-mesenchymal transition during cardiac development and oncogenic transformation. Genes and Development, 2004, 18, 99-115.	5.9	820
105	Sequential transfer of leftâ€"right information during vertebrate embryo development. Current Opinion in Genetics and Development, 2004, 14, 575-581.	3.3	43
106	MKP3 mediates the cellular response to FGF8 signalling in the vertebrate limb. Nature Cell Biology, 2003, 5, 513-519.	10.3	247
107	Notch activity induces Nodal expression and mediates the establishment of left-right asymmetry in vertebrate embryos. Genes and Development, 2003, 17, 1213-1218.	5.9	171
108	Activation of Notch signaling pathway precedes heart regeneration in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11889-11895.	7.1	302

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109	The limb identity gene Tbx5 promotes limb initiation by interacting with Wnt2b and Fgf10. Development (Cambridge), 2002, 129, 5161-70.	2.5	60
110	Goodpasture Antigen-binding Protein, the Kinase That Phosphorylates the Goodpasture Antigen, Is an Alternatively Spliced Variant Implicated in Autoimmune Pathogenesis. Journal of Biological Chemistry, 2000, 275, 40392-40399.	3.4	69
111	Characterization of a Novel Type of Serine/Threonine Kinase That Specifically Phosphorylates the Human Goodpasture Antigen. Journal of Biological Chemistry, 1999, 274, 12642-12649.	3.4	77
112	Cardiac Laterality and Congenital Heart Disease. , 1999, , 238-248.		0
113	Phenytoin-induced glutathione depletion in rat peripheral nerve. Free Radical Biology and Medicine, 1995, 19, 665-667.	2.9	8
114	Lipoic Acid Improves Nerve Blood Flow, Reduces Oxidative Stress, and Improves Distal Nerve Conduction in Experimental Diabetic Neuropathy. Diabetes Care, 1995, 18, 1160-1167.	8.6	372
115	Interferon decreases serum lipid peroxidation products of hepatitis C patients. Free Radical Biology and Medicine, 1994, 16, 131-133.	2.9	53
116	Nerve conduction velocity decrease and synaptic transmission alterations in caffeine-treated rats. Neurotoxicology and Teratology, 1994, 16, 11-15.	2.4	6
117	4-Hydroxynonenal, a Lipid Peroxidation Product, Induces Relaxation of Human Cerebral Arteries. Journal of Cerebral Blood Flow and Metabolism, 1994, 14, 693-696.	4.3	28
118	Decreased glutathione peroxidase activity in sciatic nerve of alloxan-induced diabetic mice and its correlation with blood glucose levels. Neurochemical Research, 1993, 18, 893-896.	3.3	44
119	Glutathiione system of human retina: Enzymatic conjugation of lipid peroxidation products. Free Radical Biology and Medicine, 1993, 14, 549-551.	2.9	31
120	Alterations in the antioxidant defense of peripheral nervous tissue following acute ethanol administration. Biochemical Society Transactions, 1993, 21, 92S-92S.	3.4	1
121	Prevention of the acute neurotoxic effects of phenytoin on rat peripheral nerve by H7, an inhibitor of protein kinase C. Toxicology, 1992, 75, 249-256.	4.2	8
122	Temperature dependence of the toxic effects of phenytoin on peripheral neuromuscular function of the rat tail. Neurotoxicology and Teratology, 1990, 12, 627-631.	2.4	7