Makoto Ikeya

List of Publications by Year
in descending order

52 papers	3,648 citations	186265 28 h-index	189892 50 g-index
55 all docs	55 docs citations	55 times ranked	4908 citing authors

#	Article	IF	Citations
1	Wnt signalling required for expansion of neural crest and CNS progenitors. Nature, 1997, 389, 966-970.	27.8	655
2	Neofunction of ACVR1 in fibrodysplasia ossificans progressiva. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15438-15443.	7.1	252
3	Mouse Ror2 receptor tyrosine kinase is required for the heart development and limb formation. Genes To Cells, 2000, 5, 71-78.	1.2	197
4	Efficient and Reproducible Myogenic Differentiation from Human iPS Cells: Prospects for Modeling Miyoshi Myopathy In Vitro. PLoS ONE, 2013, 8, e61540.	2.5	188
5	Species-specific segmentation clock periods are due to differential biochemical reaction speeds. Science, 2020, 369, 1450-1455.	12.6	169
6	Engineering the AAVS1 locus for consistent and scalable transgene expression in human iPSCs and their differentiated derivatives. Methods, 2016, 101, 43-55.	3.8	150
7	Recapitulating the human segmentation clock with pluripotent stem cells. Nature, 2020, 580, 124-129.	27.8	148
8	Derivation of Mesenchymal Stromal Cells from Pluripotent Stem Cells through a Neural Crest Lineage using Small Molecule Compounds with Defined Media. PLoS ONE, 2014, 9, e112291.	2.5	137
9	Wnt-3a is required for somite specification along the anteroposterior axis of the mouse embryo and for regulation of cdx-1 expression. Mechanisms of Development, 2001, 103, 27-33.	1.7	130
10	Expression of the receptor tyrosine kinase genes, Ror1 and Ror2, during mouse development. Mechanisms of Development, 2001, 105, 153-156.	1.7	130
11	Activin-A enhances mTOR signaling to promote aberrant chondrogenesis in fibrodysplasia ossificans progressiva. Journal of Clinical Investigation, 2017, 127, 3339-3352.	8.2	126
12	Loss of mRor1 Enhances the Heart and Skeletal Abnormalities in mRor2 -Deficient Mice: Redundant and Pleiotropic Functions of mRor1 and mRor2 Receptor Tyrosine Kinases. Molecular and Cellular Biology, 2001, 21, 8329-8335.	2.3	122
13	Essential pro-Bmp roles of crossveinless 2 in mouse organogenesis. Development (Cambridge), 2006, 133, 4463-4473.	2.5	107
14	Induced pluripotent stem cells from patients with human fibrodysplasia ossificans progressiva show increased mineralization and cartilage formation. Orphanet Journal of Rare Diseases, 2013, 8, 190.	2.7	101
15	BMP-SMAD-ID promotes reprogramming to pluripotency by inhibiting p16/INK4A-dependent senescence. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13057-13062.	7.1	75
16	A Modular Differentiation System Maps Multiple Human Kidney Lineages from Pluripotent Stem Cells. Cell Reports, 2020, 31, 107476.	6.4	71
17	Generation and Applications of Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells. Stem Cells International, 2018, 2018, 1-8.	2.5	63
18	In vitro bone-like nodules generated from patient-derived iPSCs recapitulate pathological bone phenotypes. Nature Biomedical Engineering, 2019, 3, 558-570.	22.5	57

#	Article	IF	Citations
19	Mutant IDH1 Dysregulates the Differentiation of Mesenchymal Stem Cells in Association with Gene-Specific Histone Modifications to Cartilage- and Bone-Related Genes. PLoS ONE, 2015, 10, e0131998.	2.5	55
20	Characterization of Mesenchymal Stem Cell-Like Cells Derived From Human iPSCs via Neural Crest Development and Their Application for Osteochondral Repair. Stem Cells International, 2017, 2017, 1-18.	2.5	55
21	Genetically Matched Human iPS Cells Reveal that Propensity for Cartilage and Bone Differentiation Differs with Clones, not Cell Type of Origin. PLoS ONE, 2013, 8, e53771.	2.5	49
22	New Protocol to Optimize iPS Cells for Genome Analysis of Fibrodysplasia Ossificans Progressiva. Stem Cells, 2015, 33, 1730-1742.	3.2	48
23	An mTOR Signaling Modulator Suppressed Heterotopic Ossification ofÂFibrodysplasia Ossificans Progressiva. Stem Cell Reports, 2018, 11, 1106-1119.	4.8	47
24	Modeling human somite development and fibrodysplasia ossificans progressiva with induced pluripotent stem cells. Development (Cambridge), 2018, 145, .	2.5	46
25	Cv2, functioning as a pro-BMP factor via twisted gastrulation, is required for early development of nephron precursors. Developmental Biology, 2010, 337, 405-414.	2.0	41
26	Bio-3D printing iPSC-derived human chondrocytes for articular cartilage regeneration. Biofabrication, 2021, 13, 044103.	7.1	38
27	Gene disruption/knock-in analysis of mONT3: vector construction by employing both in vivo and in vitro recombinations. International Journal of Developmental Biology, 2005, 49, 807-823.	0.6	38
28	Enhanced Chondrogenesis of Induced Pluripotent Stem Cells From Patients With Neonatalâ€Onset Multisystem Inflammatory Disease Occurs via the Caspase 1â€"Independent cAMP/Protein Kinase A/CREB Pathway. Arthritis and Rheumatology, 2015, 67, 302-314.	5.6	34
29	SS18-SSX, the Oncogenic Fusion Protein in Synovial Sarcoma, Is a Cellular Context-Dependent Epigenetic Modifier. PLoS ONE, 2015, 10, e0142991.	2.5	31
30	Induced Fetal Human Muscle Stem Cells with High Therapeutic Potential in a Mouse Muscular Dystrophy Model. Stem Cell Reports, 2020, 15, 80-94.	4.8	31
31	TRIOBP-5 sculpts stereocilia rootlets and stiffens supporting cells enabling hearing. JCI Insight, 2019, 4, .	5.0	29
32	Grafting of iPS cell-derived tenocytes promotes motor function recovery after Achilles tendon rupture. Nature Communications, 2021, 12, 5012.	12.8	23
33	Clumps of Mesenchymal Stem Cell/Extracellular Matrix Complexes Generated with Xeno-Free Conditions Facilitate Bone Regeneration via Direct and Indirect Osteogenesis. International Journal of Molecular Sciences, 2019, 20, 3970.	4.1	22
34	Expression of vinexin Î± in the dorsal half of the eye and in the cardiac outflow tract and atrioventricular canal. Mechanisms of Development, 2001, 106, 147-150.	1.7	19
35	In vivo regeneration of rat laryngeal cartilage with mesenchymal stem cells derived from human induced pluripotent stem cells via neural crest cells. Stem Cell Research, 2021, 52, 102233.	0.7	19
36	Identification of target genes of synovial sarcoma-associated fusion oncoprotein using human pluripotent stem cells. Biochemical and Biophysical Research Communications, 2013, 432, 713-719.	2.1	17

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37	Pro-angiogenic scaffold-free Bio three-dimensional conduit developed from human induced pluripotent stem cell-derived mesenchymal stem cells promotes peripheral nerve regeneration. Scientific Reports, 2020, 10, 12034.	3.3	17
38	Twisted gastrulation mutation suppresses skeletal defect phenotypes in Crossveinless 2 mutant mice. Mechanisms of Development, 2008, 125, 832-842.	1.7	14
39	Induced pluripotent stem cellâ€derived mesenchymal stem cells prolong hind limb survival in a rat vascularized composite allotransplantation model. Microsurgery, 2019, 39, 737-747.	1.3	14
40	Development of pluripotent stem cellâ€based human tenocytes. Development Growth and Differentiation, 2021, 63, 38-46.	1.5	13
41	Insights into the biology of fibrodysplasia ossificans progressiva using patient-derived induced pluripotent stem cells. Regenerative Therapy, 2019, 11, 25-30.	3.0	11
42	Collagen-VI supplementation by cell transplantation improves muscle regeneration in Ullrich congenital muscular dystrophy model mice. Stem Cell Research and Therapy, 2021, 12, 446.	5.5	11
43	Challenges and Opportunities for Drug Repositioning in Fibrodysplasia Ossificans Progressiva. Biomedicines, 2021, 9, 213.	3.2	8
44	SOX10-Nano-Lantern Reporter Human iPS Cells; A Versatile Tool for Neural Crest Research. PLoS ONE, 2017, 12, e0170342.	2.5	7
45	Induction of Functional Mesenchymal Stem/Stromal Cells from Human iPCs Via a Neural Crest Cell Lineage Under Xeno-Free Conditions. SSRN Electronic Journal, 0, , .	0.4	6
46	Systemic Supplementation of Collagen VI by Neonatal Transplantation of iPSC-Derived MSCs Improves Histological Phenotype and Function of Col6-Deficient Model Mice. Frontiers in Cell and Developmental Biology, 2021, 9, 790341.	3.7	5
47	In Vitro Generation of Somite Derivatives from Human Induced Pluripotent Stem Cells. Journal of Visualized Experiments, 2019, , .	0.3	4
48	The secreted EGF-Discoidin factor xDel1 is essential for dorsal development of the Xenopus embryo. Developmental Biology, 2007, 306, 160-169.	2.0	3
49	Pluripotent stem cells in developmental biology. Development Growth and Differentiation, 2021, 63, 3-4.	1.5	3
50	Dental applications of induced pluripotent stem cells and their derivatives. Japanese Dental Science Review, 2022, 58, 162-171.	5.1	2
51	Pluripotent stem cells in developmental biology (part 2). Development Growth and Differentiation, 2021, 63, 103-103.	1.5	1
52	Collagen-VI Supplementation by Cell Transplantation Improves Muscle Regeneration in Ullrich Congenital Muscular Dystrophy Model Mice. SSRN Electronic Journal, 0, , .	0.4	0