Atsushi Asakura

List of Publications by Year
in descending order

68 papers	4,676 citations	172207 29 h-index	128067 60 g-index
80 all docs	80 docs citations	80 times ranked	5630 citing authors

#	Article	IF	Citations
1	Muscle satellite cells are multipotential stem cells that exhibit myogenic, osteogenic, and adipogenic differentiation. Differentiation, 2001, 68, 245-253.	1.0	718
2	Myogenic specification of side population cells in skeletal muscle. Journal of Cell Biology, 2002, 159, 123-134.	2.3	618
3	Side population cells from diverse adult tissues are capable of in vitro hematopoietic differentiation. Experimental Hematology, 2002, 30, 1339-1345.	0.2	313
4	Reduced Differentiation Potential of Primary MyoDâˆ'/âˆ' Myogenic Cells Derived from Adult Skeletal Muscle. Journal of Cell Biology, 1999, 144, 631-643.	2.3	310
5	Muscle Satellite Cell Cross-Talk with a Vascular Niche Maintains Quiescence via VEGF and Notch Signaling. Cell Stem Cell, 2018, 23, 530-543.e9.	5.2	223
6	The Potential of Muscle Stem Cells. Developmental Cell, 2001, 1, 333-342.	3.1	220
7	Constitutive Notch Activation Upregulates Pax7 and Promotes the Self-Renewal of Skeletal Muscle Satellite Cells. Molecular and Cellular Biology, 2012, 32, 2300-2311.	1.1	216
8	Muscle satellite cell heterogeneity and self-renewal. Frontiers in Cell and Developmental Biology, 2014, 2, 1.	1.8	180
9	MyoD regulates apoptosis of myoblasts through microRNA-mediated down-regulation of Pax3. Journal of Cell Biology, 2010, 191, 347-365.	2.3	167
10	NeuroD2 Is Necessary for Development and Survival of Central Nervous System Neurons. Developmental Biology, 2001, 234, 174-187.	0.9	149
11	MyoD induces myogenic differentiation through cooperation of its NH2- and COOH-terminal regions. Journal of Cell Biology, 2005, 171, 471-482.	2.3	137
12	The Regulation of MyoD Gene Expression: Conserved Elements Mediate Expression in Embryonic Axial Muscle. Developmental Biology, 1995, 171, 386-398.	0.9	105
13	Increased survival of muscle stem cells lacking the <i>MyoD</i> gene after transplantation into regenerating skeletal muscle. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16552-16557.	3.3	103
14	Stem Cells in Adult Skeletal Muscle. Trends in Cardiovascular Medicine, 2003, 13, 123-128.	2.3	93
15	Xenotransplantation of Long-Term-Cultured Swine Bone Marrow-Derived Mesenchymal Stem Cells. Stem Cells, 2007, 25, 612-620.	1.4	77
16	Resident Endothelial Precursors in Muscle, Adipose, and Dermis Contribute to Postnatal Vasculogenesis. Stem Cells, 2007, 25, 3101-3110.	1.4	77
17	Isolation, Culture, and Transplantation of Muscle Satellite Cells. Journal of Visualized Experiments, 2014, , .	0.2	72
18	MyoD and Myf-5 define the specification of musculature of distinct embryonic origin. Biochemistry and Cell Biology, 1998, 76, 1079-1091.	0.9	68

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19	Skeletal Muscle Cell Induction from Pluripotent Stem Cells. Stem Cells International, 2017, 2017, 1-16.	1.2	61
20	Loss of MyoD Promotes Fate Transdifferentiation of Myoblasts Into Brown Adipocytes. EBioMedicine, 2017, 16, 212-223.	2.7	57
21	Flt-1 haploinsufficiency ameliorates muscular dystrophy phenotype by developmentally increased vasculature in mdx mice. Human Molecular Genetics, 2010, 19, 4145-4159.	1.4	49
22	Transcriptional and cytopathological hallmarks of FSHD in chronic DUX4-expressing mice. Journal of Clinical Investigation, 2020, 130, 2465-2477.	3.9	44
23	Angiogenesis as a novel therapeutic strategy for Duchenne muscular dystrophy through decreased ischemia and increased satellite cells. Frontiers in Physiology, 2014, 5, 50.	1.3	43
24	MyoD and myogenin act on the chicken myosin light-chain 1 gene as distinct transcriptional factors.. Molecular and Cellular Biology, 1993, 13, 7153-7162.	1.1	41
25	Vascular-targeted therapies for Duchenne muscular dystrophy. Skeletal Muscle, 2013, 3, 9.	1.9	41
26	Cry2 Is Critical for Circadian Regulation of Myogenic Differentiation by Bclaf1-Mediated mRNA Stabilization of Cyclin D1 and Tmem176b. Cell Reports, 2018, 22, 2118-2132.	2.9	41
27	<i>MyoD</i> Gene Suppression by Oct4 Is Required for Reprogramming in Myoblasts to Produce Induced Pluripotent Stem Cells. Stem Cells, 2011, 29, 505-516.	1.4	40
28	Cellular localization of the cell cycle inhibitor Cdkn1c controls growth arrest of adult skeletal muscle stem cells. ELife, 2018, 7, .	2.8	36
29	Apoptosis of Epaxial Myotome inDanforth's short-tail(Sd) Mice in Somites That Form Following Notochord Degeneration. Developmental Biology, 1998, 203, 276-289.	0.9	33
30	Promotion of Myoblast Differentiation by Fkbp5 via Cdk4 Isomerization. Cell Reports, 2018, 25, 2537-2551.e8.	2.9	26
31	MyoD enhances BMP7-induced osteogenic differentiation of myogenic cell cultures. Journal of Cell Science, 2004, 117, 1457-1468.	1.2	24
32	Tbx1 regulates inherited metabolic and myogenic abilities of progenitor cells derived from slow- and fast-type muscle. Cell Death and Differentiation, 2019, 26, 1024-1036.	5.0	23
33	Ste20-like kinase SLK displays myofiber type specificity and is involved in C2C12 myoblast differentiation. Muscle and Nerve, 2004, 29, 553-564.	1.0	19
34	Interspecies Organogenesis for Human Transplantation. Cell Transplantation, 2019, 28, 1091-1105.	1.2	19
35	Inhibition of FLT1 ameliorates muscular dystrophy phenotype by increased vasculature in a mouse model of Duchenne muscular dystrophy. PLoS Genetics, 2019, 15, e1008468.	1.5	18
36	Per1/Per2â€“Igf2 axisâ€“mediated circadian regulation of myogenic differentiation. Journal of Cell Biology, 2021, 220, .	2.3	18

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37	Myosin light chain 3f attenuates ageâ€induced decline in contractile velocity in MHC type II single muscle fibers. Aging Cell, 2012, 11, 203-212.	3.0	17
38	The endothelial Dll4â€“muscular Notch2 axis regulates skeletal muscle mass. Nature Metabolism, 2022, 4, 180-189.	5.1	15
39	Is nebulin the product of Duchenne muscular dystrophy gene?. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1987, 63, 107-110.	1.6	13
40	Increased Angiogenesis and Improved Left Ventricular Function after Transplantation of Myoblasts Lacking the MyoD Gene into Infarcted Myocardium. PLoS ONE, 2012, 7, e41736.	1.1	13
41	Fine-Tuning of Piezo1 Expression and Activity Ensures Efficient Myoblast Fusion during Skeletal Myogenesis. Cells, 2022, 11, 393.	1.8	12
42	Skeletal Muscle Tissue Clearing for LacZ and Fluorescent Reporters, and Immunofluorescence Staining. Methods in Molecular Biology, 2016, 1460, 129-140.	0.4	11
43	Skeletal Muscle-derived Hematopoietic Stem Cells: Muscular Dystrophy Therapy by Bone Marrow Transplantation. Journal of Stem Cell Research & Therapy, 2012, 01, .	0.3	11
44	Post-mitotic role of nucleostemin as a promoter of skeletal muscle cell differentiation. Biochemical and Biophysical Research Communications, 2010, 391, 299-304.	1.0	10
45	VEGFR-1/Flt-1 inhibition increases angiogenesis and improves muscle function in a mouse model of Duchenne muscular dystrophy. Molecular Therapy - Methods and Clinical Development, 2021, 21, 369-381.	1.8	9
46	Pregnancy-Induced Amelioration of Muscular Dystrophy Phenotype in mdx Mice via Muscle Membrane Stabilization Effect of Glucocorticoid. PLoS ONE, 2015, 10, e0120325.	1.1	8
47	Efficient Single Muscle Fiber Isolation from Alcohol-Fixed Adult Muscle following Î²-Galactosidase Staining for Satellite Cell Detection. Journal of Histochemistry and Cytochemistry, 2011, 59, 60-67.	1.3	7
48	In Utero Stem Cell Transplantation: Potential Therapeutic Application for Muscle Diseases. Stem Cells International, 2017, 2017, 1-12.	1.2	7
49	CDK inhibitors for muscle stem cell differentiation and self-renewal. The Journal of Physical Fitness and Sports Medicine, 2017, 6, 65-74.	0.2	7
50	Inhibition of microRNAâ€92a increases blood vessels and satellite cells in skeletal muscle but does not improve duchenne muscular dystrophyâ€“related phenotype inmdxmice. Muscle and Nerve, 2019, 59, 594-602.	1.0	7
51	Rhabdomyosarcomagenesisâ€"Novel pathway found. Cancer Cell, 2003, 4, 421-422.	7.7	6
52	Molecular Regulation of Muscle Satellite Cell Self-Renewal. Journal of Stem Cell Research & Therapy, 2012, 01, .	0.3	6
53	Cellular and Molecular Mechanisms Regulating Skeletal Muscle Development. , 2002, , 253-278.		4
54	Grand challenges in the field of stem cell research. Frontiers in Cell and Developmental Biology, 2014, 2, 2.	1.8	4

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55	Spin infection enables efficient gene delivery to muscle stem cells. BioTechniques, 2017, 63, 72-76.	0.8	4
56	An Examination of the Role of Transcriptional and Posttranscriptional Regulation in Rhabdomyosarcoma. Stem Cells International, 2017, 2017, 1-10.	1.2	4
57	Skeletal Muscle Cells Generated from Pluripotent Stem Cells. Stem Cells International, 2017, 2017, 1-2.	1.2	3
58	A New Look at an Immortal DNA Hypothesis for Stem Cell Self-Renewal. Journal of Stem Cell Research & Therapy, 2012, 02, .	0.3	3
59	Hematopoietic potential cells in skeletal muscle. Cell Research, 2007, 17, 836-838.	5.7	2
60	Vascular Endothelial Growth Factor Gene Regulation by HEXIM1 in Heart. Circulation Research, 2008, 102, 398-400.	2.0	2
61	Increasing myosin light chain 3f (MLC3f) protects against a decline in contractile velocity. PLoS ONE, 2019, 14, e0214982.	1.1	1
62	Satellite Cells and the Universe of Adult Muscle Stem Cells. Journal of Stem Cell Research & Therapy, 2012, 01, .	0.3	0
63	Critical role for nucleostemin in protein synthesis and muscle cell differentiation. FASEB Journal, 2008, 22, 1060.1.	0.2	0
64	Stem Cells in Skeletal Muscle Regeneration. , 2008, , 145-175.		0
65	Increased Myosin Light Chain 3f Content Restores Ageâ€Induced Slowing of Single Skeletal Muscle Fiber Contraction. FASEB Journal, 2011, 25, 1049.1.	0.2	0
66	Experimental Cell Transplantation for Myocardial Repair. , 2005, , 427-438.		0
67	Editorial: Editorâ€™s Pick 2021: Highlights in Stem Cell Research. Frontiers in Cell and Developmental Biology, 2022, 10, 859472.	1.8	0
68	Immunofluorescence analysis of myogenic differentiation. Methods in Cell Biology, 2022, , .	0.5	0