Atsushi Asakura

List of Publications by Citations

64 papers	3,855 citations	26 h-index	62 g-index
80 ext. papers	4,282 ext. citations	6 avg, IF	5.32 L-index

#	Paper	IF	Citations
64	Muscle satellite cells are multipotential stem cells that exhibit myogenic, osteogenic, and adipogenic differentiation. *Differentiation*, **2001**, 68, 245-53	3.5	629
63	Myogenic specification of side population cells in skeletal muscle. *Journal of Cell Biology*, **2002**, 159, 123-34	7.3	564
62	Side population cells from diverse adult tissues are capable of in vitro hematopoietic differentiation. *Experimental Hematology*, **2002**, 30, 1339-45	3.1	290
61	Reduced differentiation potential of primary MyoD-/- myogenic cells derived from adult skeletal muscle. *Journal of Cell Biology*, **1999**, 144, 631-43	7.3	268
60	The potential of muscle stem cells. *Developmental Cell*, **2001**, 1, 333-42	10.2	199
59	Constitutive Notch activation upregulates Pax7 and promotes the self-renewal of skeletal muscle satellite cells. *Molecular and Cellular Biology*, **2012**, 32, 2300-11	4.8	178
58	MyoD regulates apoptosis of myoblasts through microRNA-mediated down-regulation of Pax3. *Journal of Cell Biology*, **2010**, 191, 347-65	7.3	144
57	Muscle Satellite Cell Cross-Talk with a Vascular Niche Maintains Quiescence via VEGF and Notch Signaling. *Cell Stem Cell*, **2018**, 23, 530-543.e9	18	129
56	Muscle satellite cell heterogeneity and self-renewal. *Frontiers in Cell and Developmental Biology*, **2014**, 2, 1	5.7	120
55	NeuroD2 is necessary for development and survival of central nervous system neurons. *Developmental Biology*, **2001**, 234, 174-87	3.1	120
54	MyoD induces myogenic differentiation through cooperation of its NH2- and COOH-terminal regions. *Journal of Cell Biology*, **2005**, 171, 471-82	7.3	112
53	The regulation of MyoD gene expression: conserved elements mediate expression in embryonic axial muscle. *Developmental Biology*, **1995**, 171, 386-98	3.1	100
52	Increased survival of muscle stem cells lacking the MyoD gene after transplantation into regenerating skeletal muscle. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 16552-7	11.5	90
51	Stem cells in adult skeletal muscle. *Trends in Cardiovascular Medicine*, **2003**, 13, 123-8	6.9	78
50	Resident endothelial precursors in muscle, adipose, and dermis contribute to postnatal vasculogenesis. *Stem Cells*, **2007**, 25, 3101-10	5.8	74
49	Xenotransplantation of long-term-cultured swine bone marrow-derived mesenchymal stem cells. *Stem Cells*, **2007**, 25, 612-20	5.8	66
48	MyoD and Myf-5 define the specification of musculature of distinct embryonic origin. *Biochemistry and Cell Biology*, **1998**, 76, 1079-1091	3.6	64

47	Isolation, culture, and transplantation of muscle satellite cells. *Journal of Visualized Experiments*, **2014**,	1.6	60
46	Flt-1 haploinsufficiency ameliorates muscular dystrophy phenotype by developmentally increased vasculature in mdx mice. *Human Molecular Genetics*, **2010**, 19, 4145-59	5.6	43
45	Loss of MyoD Promotes Fate Transdifferentiation of Myoblasts Into Brown Adipocytes. *EBioMedicine*, **2017**, 16, 212-223	8.8	42
44	Skeletal Muscle Cell Induction from Pluripotent Stem Cells. *Stem Cells International*, **2017**, 2017, 1376151	5	39
43	MyoD and myogenin act on the chicken myosin light-chain 1 gene as distinct transcriptional factors. *Molecular and Cellular Biology*, **1993**, 13, 7153-62	4.8	39
42	MyoD gene suppression by Oct4 is required for reprogramming in myoblasts to produce induced pluripotent stem cells. *Stem Cells*, **2011**, 29, 505-16	5.8	38
41	Vascular-targeted therapies for Duchenne muscular dystrophy. *Skeletal Muscle*, **2013**, 3, 9	5.1	34
40	Angiogenesis as a novel therapeutic strategy for Duchenne muscular dystrophy through decreased ischemia and increased satellite cells. *Frontiers in Physiology*, **2014**, 5, 50	4.6	34
39	Apoptosis of epaxial myotome in Danforth’s short-tail (Sd) mice in somites that form following notochord degeneration. *Developmental Biology*, **1998**, 203, 276-89	3.1	32
38	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	10.6	22
37	MyoD enhances BMP7-induced osteogenic differentiation of myogenic cell cultures. *Journal of Cell Science*, **2004**, 117, 1457-68	5.3	21
36	Cellular localization of the cell cycle inhibitor Cdkn1c controls growth arrest of adult skeletal muscle stem cells. *ELife*, **2018**, 7,	8.9	20
35	Transcriptional and cytopathological hallmarks of FSHD in chronic DUX4-expressing mice. *Journal of Clinical Investigation*, **2020**, 130, 2465-2477	15.9	19
34	Ste20-like kinase SLK displays myofiber type specificity and is involved in C2C12 myoblast differentiation. *Muscle and Nerve*, **2004**, 29, 553-64	3.4	18
33	Myosin light chain 3f attenuates age-induced decline in contractile velocity in MHC type II single muscle fibers. *Aging Cell*, **2012**, 11, 203-12	9.9	15
32	Promotion of Myoblast Differentiation by Fkbp5 via Cdk4 Isomerization. *Cell Reports*, **2018**, 25, 2537-2551.e8	10.6	13
31	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	12.7	12
30	Skeletal Muscle Tissue Clearing for LacZ and Fluorescent Reporters, and Immunofluorescence Staining. *Methods in Molecular Biology*, **2016**, 1460, 129-40	1.4	10

29	Interspecies Organogenesis for Human Transplantation. *Cell Transplantation*, **2019**, 28, 1091-1105	4	9
28	Post-mitotic role of nucleostemin as a promoter of skeletal muscle cell differentiation. *Biochemical and Biophysical Research Communications*, **2010**, 391, 299-304	3.4	9
27	Increased angiogenesis and improved left ventricular function after transplantation of myoblasts lacking the MyoD gene into infarcted myocardium. *PLoS ONE*, **2012**, 7, e41736	3.7	9
26	Is Nebulin the Product of Duchenne Muscular Dystrophy Gene?. *Proceedings of the Japan Academy Series B: Physical and Biological Sciences*, **1987**, 63, 107-110	4	8
25	Pregnancy-induced amelioration of muscular dystrophy phenotype in mdx mice via muscle membrane stabilization effect of glucocorticoid. *PLoS ONE*, **2015**, 10, e0120325	3.7	7
24	Efficient single muscle fiber isolation from alcohol-fixed adult muscle following β-galactosidase staining for satellite cell detection. *Journal of Histochemistry and Cytochemistry*, **2011**, 59, 60-7	3.4	7
23	Inhibition of FLT1 ameliorates muscular dystrophy phenotype by increased vasculature in a mouse model of Duchenne muscular dystrophy. *PLoS Genetics*, **2019**, 15, e1008468	6	7
22	In Utero Stem Cell Transplantation: Potential Therapeutic Application for Muscle Diseases. *Stem Cells International*, **2017**, 2017, 3027520	5	6
21	Skeletal Muscle-derived Hematopoietic Stem Cells: Muscular Dystrophy Therapy by Bone Marrow Transplantation. *Journal of Stem Cell Research & Therapy*, **2012**, Suppl 11,	1	6
20	Molecular Regulation of Muscle Satellite Cell Self-Renewal. *Journal of Stem Cell Research & Therapy*, **2012**, Suppl 11,	1	6
19	Inhibition of microRNA-92a increases blood vessels and satellite cells in skeletal muscle but does not improve duchenne muscular dystrophy-related phenotype in mdx mice. *Muscle and Nerve*, **2019**, 59, 594-602	3.4	5
18	Rhabdomyosarcomagenesis-Novel pathway found. *Cancer Cell*, **2003**, 4, 421-2	24.3	5
17	Per1/Per2-Igf2 axis-mediated circadian regulation of myogenic differentiation. *Journal of Cell Biology*, **2021**, 220,	7.3	4
16	An Examination of the Role of Transcriptional and Posttranscriptional Regulation in Rhabdomyosarcoma. *Stem Cells International*, **2017**, 2017, 2480375	5	3
15	CDK inhibitors for muscle stem cell differentiation and self-renewal. *The Journal of Physical Fitness and Sports Medicine*, **2017**, 6, 65-74	0.5	3
14	Grand challenges in the field of stem cell research. *Frontiers in Cell and Developmental Biology*, **2014** , 2, 2	5.7	3
13	Cellular and Molecular Mechanisms Regulating Skeletal Muscle Development **2002**, 253-278		3
12	Fine-Tuning of Piezo1 Expression and Activity Ensures Efficient Myoblast Fusion during Skeletal Myogenesis.. *Cells*, **2022**, 11,	7.9	3

11	A New Look at an Immortal DNA Hypothesis for Stem Cell Self-Renewal. *Journal of Stem Cell Research & Therapy*, **2012**, 2,	1	3
10	Hematopoietic potential cells in skeletal muscle. *Cell Research*, **2007**, 17, 836-8	24.7	2
9	Increasing myosin light chain 3f (MLC3f) protects against a decline in contractile velocity. *PLoS ONE*, **2019**, 14, e0214982	3.7	1
8	Amelioration of muscular dystrophy phenotype in mdx mice by inhibition of Flt1		1
7	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	6.4	1
6	Endothelial cell signature in muscle stem cells validated by VEGFA-FLT1-AKT1 axis promoting survival of muscle stem cell		1
5	The endothelial Dll4-muscular Notch2 axis regulates skeletal muscle mass.. *Nature Metabolism*, **2022**, 4, 180-189	14.6	1
4	Spin infection enables efficient gene delivery to muscle stem cells. *BioTechniques*, **2017**, 63, 72-76	2.5	0
3	Experimental Cell Transplantation for Myocardial Repair **2005**, 427-438		
2	Critical role for nucleostemin in protein synthesis and muscle cell differentiation. *FASEB Journal*, **2008**, 22, 1060.1	0.9	
1	Increased Myosin Light Chain 3f Content Restores Age-Induced Slowing of Single Skeletal Muscle Fiber Contraction. *FASEB Journal*, **2011**, 25, 1049.1	0.9	