So-ichiro Fukada

List of Publications by Citations

83	4,560	31	67
papers	citations	h-index	g-index
106	5,486	6.2	5.24
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
83	Mesenchymal progenitors distinct from satellite cells contribute to ectopic fat cell formation in skeletal muscle. *Nature Cell Biology*, **2010**, 12, 143-52	23.4	782
82	Fibrosis and adipogenesis originate from a common mesenchymal progenitor in skeletal muscle. *Journal of Cell Science*, **2011**, 124, 3654-64	5.3	375
81	Molecular signature of quiescent satellite cells in adult skeletal muscle. *Stem Cells*, **2007**, 25, 2448-59	5.8	330
80	Purification and cell-surface marker characterization of quiescent satellite cells from murine skeletal muscle by a novel monoclonal antibody. *Experimental Cell Research*, **2004**, 296, 245-55	4.2	160
79	Identification and characterization of PDGFR▯ mesenchymal progenitors in human skeletal muscle. *Cell Death and Disease*, **2014**, 5, e1186	9.8	155
78	Suppression of macrophage functions impairs skeletal muscle regeneration with severe fibrosis. *Experimental Cell Research*, **2008**, 314, 3232-44	4.2	153
77	NO production results in suspension-induced muscle atrophy through dislocation of neuronal NOS. *Journal of Clinical Investigation*, **2007**, 117, 2468-76	15.9	144
76	Generation of skeletal muscle stem/progenitor cells from murine induced pluripotent stem cells. *FASEB Journal*, **2010**, 24, 2245-53	0.9	133
75	Reciprocal signalling by Notch-Collagen V-CALCR retains muscle stem cells in their niche. *Nature*, **2018**, 557, 714-718	50.4	114
74	Hesr1 and Hesr3 are essential to generate undifferentiated quiescent satellite cells and to maintain satellite cell numbers. *Development (Cambridge)*, **2011**, 138, 4609-19	6.6	109
73	Genetic background affects properties of satellite cells and mdx phenotypes. *American Journal of Pathology*, **2010**, 176, 2414-24	5.8	107
72	Muscle regeneration by reconstitution with bone marrow or fetal liver cells from green fluorescent protein-gene transgenic mice. *Journal of Cell Science*, **2002**, 115, 1285-1293	5.3	105
71	Functional heterogeneity of side population cells in skeletal muscle. *Biochemical and Biophysical Research Communications*, **2006**, 341, 864-73	3.4	103
70	Hypertension and dysregulated proinflammatory cytokine production in receptor activity-modifying protein 1-deficient mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 16702-7	11.5	98
69	Muscle regeneration by reconstitution with bone marrow or fetal liver cells from green fluorescent protein-gene transgenic mice. *Journal of Cell Science*, **2002**, 115, 1285-93	5.3	94
68	Calcitonin gene-related peptide is an important regulator of cutaneous immunity: effect on dendritic cell and T cell functions. *Journal of Immunology*, **2011**, 186, 6886-93	5.3	84
67	Autologous transplantation of SM/C-2.6(+) satellite cells transduced with micro-dystrophin CS1 cDNA by lentiviral vector into mdx mice. *Molecular Therapy*, **2007**, 15, 2178-85	11.7	76

66	Generation of transplantable, functional satellite-like cells from mouse embryonic stem cells. *FASEB Journal*, **2009**, 23, 1907-19	0.9	75
65	Cell-Surface Protein Profiling Identifies Distinctive Markers of Progenitor Cells in Human Skeletal Muscle. *Stem Cell Reports*, **2016**, 7, 263-78	8	73
64	Muscle CD31(-) CD45(-) side population cells promote muscle regeneration by stimulating proliferation and migration of myoblasts. *American Journal of Pathology*, **2008**, 173, 781-91	5.8	68
63	Modified forelimb grip strength test detects aging-associated physiological decline in skeletal muscle function in male mice. *Scientific Reports*, **2017**, 7, 42323	4.9	66
62	Fibrogenic Cell Plasticity Blunts Tissue Regeneration and Aggravates Muscular Dystrophy. *Stem Cell Reports*, **2015**, 4, 1046-60	8	62
61	Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the Quiescent State and the Niche. *Cell Reports*, **2015**, 13, 302-14	10.6	62
60	Imatinib attenuates severe mouse dystrophy and inhibits proliferation and fibrosis-marker expression in muscle mesenchymal progenitors. *Neuromuscular Disorders*, **2013**, 23, 349-56	2.9	48
59	Green fluorescent protein-transgenic mice: immune functions and their application to studies of lymphocyte development. *Immunology Letters*, **1999**, 70, 165-71	4.1	42
58	The roles of muscle stem cells in muscle injury, atrophy and hypertrophy. *Journal of Biochemistry*, **2018**, 163, 353-358	3.1	40
57	A novel long non-coding RNA Myolinc regulates myogenesis through TDP-43 and Filip1. *Journal of Molecular Cell Biology*, **2018**, 10, 102-117	6.3	38
56	Calcitonin Receptor Neurons in the Mouse Nucleus Tractus Solitarius Control Energy Balance via the Non-aversive Suppression of Feeding. *Cell Metabolism*, **2020**, 31, 301-312.e5	24.6	37
55	Current Translational Research and Murine Models For Duchenne Muscular Dystrophy. *Journal of Neuromuscular Diseases*, **2016**, 3, 29-48	5	36
54	Adiponectin promotes muscle regeneration through binding to T-cadherin. *Scientific Reports*, **2019**, 9, 16	4.9	34
53	Calcitonin gene-related peptide enhances experimental autoimmune encephalomyelitis by promoting Th17-cell functions. *International Immunology*, **2012**, 24, 681-91	4.9	31
52	Isolation, characterization, and molecular regulation of muscle stem cells. *Frontiers in Physiology*, **2013**, 4, 317	4.6	30
51	Angiotensin-converting enzyme 2 deficiency accelerates and angiotensin 1-7 restores age-related muscle weakness in mice. *Journal of Cachexia, Sarcopenia and Muscle*, **2018**, 9, 975-986	10.3	30
50	Impaired viability of muscle precursor cells in muscular dystrophy with glycosylation defects and amelioration of its severe phenotype by limited gene expression. *Human Molecular Genetics*, **2013**, 22, 3003-15	5.6	29
49	Adult stem cell and mesenchymal progenitor theories of aging. *Frontiers in Cell and Developmental Biology*, **2014**, 2, 10	5.7	28

48	Calcitonin gene-related peptide and cyclic adenosine 5Smonophosphate/protein kinase A pathway promote IL-9 production in Th9 differentiation process. *Journal of Immunology*, **2013**, 190, 4046-55	5.3	28
47	Impaired regenerative capacity and lower revertant fibre expansion in dystrophin-deficient mdx muscles on DBA/2 background. *Scientific Reports*, **2016**, 6, 38371	4.9	27
46	Calcitonin gene-related peptide regulates type IV hypersensitivity through dendritic cell functions. *PLoS ONE*, **2014**, 9, e86367	3.7	25
45	Sustained expression of HeyL is critical for the proliferation of muscle stem cells in overloaded muscle. *ELife*, **2019**, 8,	8.9	25
44	Adult murine cardiomyocytes exhibit regenerative activity with cell cycle reentry through STAT3 in the healing process of myocarditis. *Scientific Reports*, **2017**, 7, 1407	4.9	24
43	Cell-autonomous and redundant roles of Hey1 and HeyL in muscle stem cells: HeyL requires Hes1 to bind diverse DNA sites. *Development (Cambridge)*, **2019**, 146,	6.6	23
42	Generation of induced pluripotent stem (iPS) cells derived from a murine model of Pompe disease and differentiation of Pompe-iPS cells into skeletal muscle cells. *Molecular Genetics and Metabolism* , **2011**, 104, 123-8	3.7	23
41	Muscle regeneration is disrupted by cancer cachexia without loss of muscle stem cell potential. *PLoS ONE*, **2018**, 13, e0205467	3.7	23
40	Role of damage and management in muscle hypertrophy: Different behaviors of muscle stem cells in regeneration and hypertrophy. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2020**, 1867, 118742	4.9	22
39	Vestigial-like 2 contributes to normal muscle fiber type distribution in mice. *Scientific Reports*, **2017**, 7, 7168	4.9	22
38	Doublecortin marks a new population of transiently amplifying muscle progenitor cells and is required for myofiber maturation during skeletal muscle regeneration. *Development (Cambridge)*, **2015**, 142, 51-61	6.6	22
37	Interaction of merosin (laminin 2) with very late activation antigen-6 is necessary for the survival of CD4+ CD8+ immature thymocytes. *Immunology*, **2000**, 99, 481-8	7.8	22
36	Muscle injury-induced thymosin ⍰ acts as a chemoattractant for myoblasts. *Journal of Biochemistry* , **2011**, 149, 43-8	3.1	21
35	CD90-positive cells, an additional cell population, produce laminin alpha2 upon transplantation to dy(3k)/dy(3k) mice. *Experimental Cell Research*, **2008**, 314, 193-203	4.2	19
34	The Ror1 receptor tyrosine kinase plays a critical role in regulating satellite cell proliferation during regeneration of injured muscle. *Journal of Biological Chemistry*, **2017**, 292, 15939-15951	5.4	18
33	Mesenchymal Bmp3b expression maintains skeletal muscle integrity and decreases in age-related sarcopenia. *Journal of Clinical Investigation*, **2021**, 131,	15.9	18
32	Regulation of Lck and Fyn tyrosine kinase activities by transmembrane protein tyrosine phosphatase leukocyte common antigen-related molecule. *Molecular Cancer Research*, **2002**, 1, 155-63	6.6	18
31	Pro-Insulin-Like Growth Factor-II Ameliorates Age-Related Inefficient Regenerative Response by Orchestrating Self-Reinforcement Mechanism of Muscle Regeneration. *Stem Cells*, **2015**, 33, 2456-68	5.8	17

30	Calcitonin receptor and Odz4 are differently expressed in Pax7-positive cells during skeletal muscle regeneration. *Journal of Molecular Histology*, **2012**, 43, 581-7	3.3	17
29	Notch ligands regulate the muscle stem-like state ex vivo but are not sufficient for retaining regenerative capacity. *PLoS ONE*, **2017**, 12, e0177516	3.7	17
28	The CalcR-PKA-Yap1 Axis Is Critical for Maintaining Quiescence in Muscle Stem Cells. *Cell Reports*, **2019**, 29, 2154-2163.e5	10.6	16
27	Methods for Accurate Assessment of Myofiber Maturity During Skeletal Muscle Regeneration. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 267	5.7	14
26	Multiple ETS family proteins regulate PF4 gene expression by binding to the same ETS binding site. *PLoS ONE*, **2011**, 6, e24837	3.7	12
25	Neuronal derivative mediators that regulate cutaneous inflammations. *Critical Reviews in Immunology*, **2012**, 32, 307-20	1.8	9
24	The Robo4-TRAF7 complex suppresses endothelial hyperpermeability in inflammation. *Journal of Cell Science*, **2019**, 132,	5.3	9
23	Evidence of Notch-Hesr-Nrf2 Axis in Muscle Stem Cells, but Absence of Nrf2 Has No Effect on Their Quiescent and Undifferentiated State. *PLoS ONE*, **2015**, 10, e0138517	3.7	8
22	Muscle Satellite Cell Protein Teneurin-4 Regulates Differentiation During Muscle Regeneration. *Stem Cells*, **2015**, 33, 3017-27	5.8	8
21	Expression and Functional Analyses of Dlk1 in Muscle Stem Cells and Mesenchymal Progenitors during Muscle Regeneration. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	7
20	Critical role of Frizzled1 in age-related alterations of Wnt/βcatenin signal in myogenic cells during differentiation. *Genes To Cells*, **2014**, 19, 287-96	2.3	7
19	Suppression of ovalbumin-induced allergic diarrhea by diminished intestinal peristalsis in RAMP1-deficient mice. *Biochemical and Biophysical Research Communications*, **2011**, 410, 389-93	3.4	7
18	Myogenic induction of adult and pluripotent stem cells using recombinant proteins. *Biochemical and Biophysical Research Communications*, **2015**, 464, 755-61	3.4	6
17	Gm7325 is MyoD-dependently expressed in activated muscle satellite cells. *Biomedical Research*, **2017**, 38, 215-219	1.5	6
16	Implication of basal lamina dependency in survival of Nrf2-null muscle stem cells via an antioxidative-independent mechanism. *Journal of Cellular Physiology*, **2019**, 234, 1689-1698	7	6
15	Myofiber androgen receptor increases muscle strength mediated by a skeletal muscle splicing variant of Mylk4. *IScience*, **2021**, 24, 102303	6.1	5
14	An herbal medicine, Go-sha-jinki-gan (GJG), increases muscle weight in severe muscle dystrophy model mice. *Clinical Nutrition Experimental*, **2017**, 16, 13-23	2	4
13	Expression of mdr1 is required for efficient long term regeneration of dystrophic muscle. *Experimental Cell Research*, **2007**, 313, 2438-50	4.2	4

12	Relayed signaling between mesenchymal progenitors and muscle stem cells ensures adaptive stem cell response to increased mechanical load. *Cell Stem Cell*, **2021**,	18	3
11	DNA maintenance methylation enzyme Dnmt1 in satellite cells is essential for muscle regeneration. *Biochemical and Biophysical Research Communications*, **2021**, 534, 79-85	3.4	3
10	Dlk1 regulates quiescence in calcitonin receptor-mutant muscle stem cells. *Stem Cells*, **2021**, 39, 306-317	5.8	3
9	Reduced expression of calcitonin receptor is closely associated with age-related loss of the muscle stem cell pool. *JCSM Rapid Communications*, **2019**, 2, 1-13	2.6	2
8	Androgen receptor in satellite cells is not essential for muscle regenerations. *Experimental Results*, **2020**, 1,	1.3	1
7	Muscle Satellite Cells and Duchenne Muscular Dystrophy **2012**,		1
6	Regulation of Muscle Stem Cell Quiescent and Undifferentiated State: Roles of Hesr1 and Hesr3 Genes **2013**, 107-116		1
5	Exercise/Resistance Training and Muscle Stem Cells. *Endocrinology and Metabolism*, **2021**, 36, 737-744	3.5	1
4	Regulation of muscle hypertrophy: Involvement of the Akt-independent pathway and satellite cells in muscle hypertrophy. *Experimental Cell Research*, **2021**, 409, 112907	4.2	0
3	Detection of muscle stem cell-derived myonuclei in murine overloaded muscles.. *STAR Protocols*, **2022**, 3, 101307	1.4	0
2	Toward Regenerative Medicine for Muscular Dystrophies **2016**, 103-122		
1	Uhrf1 governs the proliferation and differentiation of muscle satellite cells.. *IScience*, **2022**, 25, 103928	6.1	