# So-ichiro Fukada

List of Publications by Year
in descending order



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|---|---|---|---|
| 89 papers | 6,161 citations | 101535<br>36 h-index | 74160<br>75 g-index |
| 106 all docs | 106 docs citations | 106 times ranked | 6967 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mesenchymal progenitors distinct from satellite cells contribute to ectopic fat cell formation in skeletal muscle. Nature Cell Biology, 2010, 12, 143-152. | 10.3 | 1,013 |
| 2 | Fibrosis and adipogenesis originate from a common mesenchymal progenitor in skeletal muscle. Journal of Cell Science, 2011, 124, 3654-3664. | 2.0 | 517 |
| 3 | Molecular Signature of Quiescent Satellite Cells in Adult Skeletal Muscle. Stem Cells, 2007, 25, 2448-2459. | 3.2 | 402 |
| 4 | Identification and characterization of PDGFRÎ±+ mesenchymal progenitors in human skeletal muscle. Cell Death and Disease, 2014, 5, e1186-e1186. | 6.3 | 241 |
| 5 | Reciprocal signalling by Notchâ€"Collagen Vâ€"CALCR retains muscle stem cells in their niche. Nature, 2018, 557, 714-718. | 27.8 | 203 |
| 6 | Suppression of macrophage functions impairs skeletal muscle regeneration with severe fibrosis. Experimental Cell Research, 2008, 314, 3232-3244. | 2.6 | 183 |
| 7 | Purification and cell-surface marker characterization of quiescent satellite cells from murine skeletal muscle by a novel monoclonal antibody. Experimental Cell Research, 2004, 296, 245-255. | 2.6 | 179 |
| 8 | Generation of skeletal muscle stem/progenitor cells from murine induced pluripotent stem cells. FASEB Journal, 2010, 24, 2245-2253. | 0.5 | 162 |
| 9 | NO production results in suspension-induced muscle atrophy through dislocation of neuronal NOS. Journal of Clinical Investigation, 2007, 117, 2468-2476. | 8.2 | 157 |
| 10 | Genetic Background Affects Properties of Satellite Cells and mdx Phenotypes. American Journal of Pathology, 2010, 176, 2414-2424. | 3.8 | 154 |
| 11 | Modified forelimb grip strength test detects aging-associated physiological decline in skeletal muscle function in male mice. Scientific Reports, 2017, 7, 42323. | 3.3 | 144 |
| 12 | 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. | 2.0 | 127 |
| 13 | Hesr1 and Hesr3 are essential to generate undifferentiated quiescent satellite cells and to maintain satellite cell numbers. Development (Cambridge), 2011, 138, 4609-4619. | 2.5 | 125 |
| 14 | 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, 16702-16707. | 7.1 | 117 |
| 15 | Functional heterogeneity of side population cells in skeletal muscle. Biochemical and Biophysical Research Communications, 2006, 341, 864-873. | 2.1 | 110 |
| 16 | Calcitonin Gene-Related Peptide Is an Important Regulator of Cutaneous Immunity: Effect on Dendritic Cell and T Cell Functions. Journal of Immunology, 2011, 186, 6886-6893. | 0.8 | 110 |
| 17 | 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. | 2.0 | 100 |
| 18 | Cell-Surface Protein Profiling Identifies Distinctive Markers of Progenitor Cells in Human Skeletal Muscle. Stem Cell Reports, 2016, 7, 263-278. | 4.8 | 95 |

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|---|---|---|---|
| 19 | Fibrogenic Cell Plasticity Blunts Tissue Regeneration and Aggravates Muscular Dystrophy. Stem Cell Reports, 2015, 4, 1046-1060. | 4.8 | 91 |
| 20 | Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the Quiescent State and the Niche. Cell Reports, 2015, 13, 302-314. | 6.4 | 88 |
| 21 | 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, 2178-2185. | 8.2 | 82 |
| 22 | Generation of transplantable, functional satelliteâ€like cells from mouse embryonic stem cells. FASEB Journal, 2009, 23, 1907-1919. | 0.5 | 81 |
| 23 | Muscle CD31(âˆ’) CD45(âˆ’) Side Population Cells Promote Muscle Regeneration by Stimulating Proliferation and Migration of Myoblasts. American Journal of Pathology, 2008, 173, 781-791. | 3.8 | 75 |
| 24 | 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. | 16.2 | 68 |
| 25 | Mesenchymal Bmp3b expression maintains skeletal muscle integrity and decreases in age-related sarcopenia. Journal of Clinical Investigation, 2021, 131, . | 8.2 | 63 |
| 26 | Adiponectin promotes muscle regeneration through binding to T-cadherin. Scientific Reports, 2019, 9, 16. | 3.3 | 60 |
| 27 | The roles of muscle stem cells in muscle injury, atrophy and hypertrophy. Journal of Biochemistry, 2018, 163, 353-358. | 1.7 | 59 |
| 28 | A novel long non-coding RNA Myolinc regulates myogenesis through TDP-43 and Filip1. Journal of Molecular Cell Biology, 2018, 10, 102-117. | 3.3 | 56 |
| 29 | Imatinib attenuates severe mouse dystrophy and inhibits proliferation and fibrosis-marker expression in muscle mesenchymal progenitors. Neuromuscular Disorders, 2013, 23, 349-356. | 0.6 | 55 |
| 30 | Impaired regenerative capacity and lower revertant fibre expansion in dystrophin-deficient mdx muscles on DBA/2 background. Scientific Reports, 2016, 6, 38371. | 3.3 | 47 |
| 31 | Green fluorescent protein-transgenic mice: immune functions and their application to studies of lymphocyte development. Immunology Letters, 2000, 70, 165-171. | 2.5 | 45 |
| 32 | Calcitonin gene-related peptide enhances experimental autoimmune encephalomyelitis by promoting Th17-cell functions. International Immunology, 2012, 24, 681-691. | 4.0 | 44 |
| 33 | Current Translational Research and Murine Models For Duchenne Muscular Dystrophy. Journal of Neuromuscular Diseases, 2016, 3, 29-48. | 2.6 | 43 |
| 34 | Vestigial-like 2 contributes to normal muscle fiber type distribution in mice. Scientific Reports, 2017, 7, 7168. | 3.3 | 42 |
| 35 | Methods for Accurate Assessment of Myofiber Maturity During Skeletal Muscle Regeneration. Frontiers in Cell and Developmental Biology, 2020, 8, 267. | 3.7 | 42 |
| 36 | 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, 3003-3015. | 2.9 | 40 |

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|---|---|---|---|
| 37 | Sustained expression of HeyL is critical for the proliferation of muscle stem cells in overloaded muscle. ELife, 2019, 8, . | 6.0 | 40 |
| 38 | The CalcR-PKA-Yap1 Axis Is Critical for Maintaining Quiescence in Muscle Stem Cells. Cell Reports, 2019, 29, 2154-2163.e5. | 6.4 | 38 |
| 39 | Calcitonin Gene-Related Peptide and Cyclic Adenosine 5â€²-Monophosphate/Protein Kinase A Pathway Promote IL-9 Production in Th9 Differentiation Process. Journal of Immunology, 2013, 190, 4046-4055. | 0.8 | 37 |
| 40 | Adult stem cell and mesenchymal progenitor theories of aging. Frontiers in Cell and Developmental Biology, 2014, 2, 10. | 3.7 | 37 |
| 41 | Angiotensinâ€converting enzyme 2 deficiency accelerates and angiotensin 1â€7 restores ageâ€related muscle weakness in mice. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 975-986. | 7.3 | 37 |
| 42 | 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. | 4.1 | 37 |
| 43 | Muscle regeneration is disrupted by cancer cachexia without loss of muscle stem cell potential. PLoS ONE, 2018, 13, e0205467. | 2.5 | 36 |
| 44 | Relayed signaling between mesenchymal progenitors and muscle stem cells ensures adaptive stem cell response to increased mechanical load. Cell Stem Cell, 2022, 29, 265-280.e6. | 11.1 | 36 |
| 45 | Isolation, characterization, and molecular regulation of muscle stem cells. Frontiers in Physiology, 2013, 4, 317. | 2.8 | 35 |
| 46 | 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, . | 2.5 | 34 |
| 47 | Calcitonin Gene-Related Peptide Regulates Type IV Hypersensitivity through Dendritic Cell Functions. PLoS ONE, 2014, 9, e86367. | 2.5 | 32 |
| 48 | Notch ligands regulate the muscle stem-like state ex vivo but are not sufficient for retaining regenerative capacity. PLoS ONE, 2017, 12, e0177516. | 2.5 | 30 |
| 49 | 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, 123-128. | 1.1 | 29 |
| 50 | 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. | 2.5 | 29 |
| 51 | Adult murine cardiomyocytes exhibit regenerative activity with cell cycle reentry through STAT3 in the healing process of myocarditis. Scientific Reports, 2017, 7, 1407. | 3.3 | 29 |
| 52 | Muscle injury-induced thymosin Â4 acts as a chemoattractant for myoblasts. Journal of Biochemistry, 2011, 149, 43-48. | 1.7 | 25 |
| 53 | Myofiber androgen receptor increases muscle strength mediated by a skeletal muscle splicing variant of Mylk4. IScience, 2021, 24, 102303. | 4.1 | 24 |
| 54 | Interaction of merosin (laminin 2) with very late activation antigen-6 is necessary for the survival of CD4+ â€ƒCD8+ immature thymocytes. Immunology, 2000, 99, 481-488. | 4.4 | 23 |

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|---|---|---|---|
| 55 | CD90-positive cells, an additional cell population, produce laminin Î±2 upon transplantation to dy/dy mice. Experimental Cell Research, 2008, 314, 193-203. | 2.6 | 23 |
| 56 | 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. | 3.4 | 23 |
| 57 | Pro-Insulin-Like Growth Factor-II Ameliorates Age-Related Inefficient Regenerative Response by Orchestrating Self-Reinforcement Mechanism of Muscle Regeneration. Stem Cells, 2015, 33, 2456-2468. | 3.2 | 22 |
| 58 | Calcitonin receptor and Odz4 are differently expressed in Pax7-positive cells during skeletal muscle regeneration. Journal of Molecular Histology, 2012, 43, 581-587. | 2.2 | 20 |
| 59 | Differences in muscle satellite cell dynamics during muscle hypertrophy and regeneration. Skeletal Muscle, 2022, 12, . | 4.2 | 20 |
| 60 | 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. | 3.4 | 19 |
| 61 | Multiple ETS Family Proteins Regulate PF4 Gene Expression by Binding to the Same ETS Binding Site. PLoS ONE, 2011, 6, e24837. | 2.5 | 14 |
| 62 | Neuronal Derivative Mediators That Regulate Cutaneous Inflammations. Critical Reviews in Immunology, 2012, 32, 307-320. | 0.5 | 13 |
| 63 | Muscle Satellite Cell Protein Teneurin-4 Regulates Differentiation During Muscle Regeneration. Stem Cells, 2015, 33, 3017-3027. | 3.2 | 13 |
| 64 | The Robo4-TRAF7 complex suppresses endothelial hyperpermeability in inflammation. Journal of Cell Science, 2019, 132, . | 2.0 | 13 |
| 65 | 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. | 2.5 | 11 |
| 66 | Expression and Functional Analyses of Dlk1 in Muscle Stem Cells and Mesenchymal Progenitors during Muscle Regeneration. International Journal of Molecular Sciences, 2019, 20, 3269. | 4.1 | 11 |
| 67 | Myogenic induction of adult and pluripotent stem cells using recombinant proteins. Biochemical and Biophysical Research Communications, 2015, 464, 755-761. | 2.1 | 10 |
| 68 | 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. | 4.1 | 10 |
| 69 | Regulation of muscle hypertrophy: Involvement of the Akt-independent pathway and satellite cells in muscle hypertrophy. Experimental Cell Research, 2021, 409, 112907. | 2.6 | 10 |
| 70 | Suppression of ovalbumin-induced allergic diarrhea by diminished intestinal peristalsis in RAMP1-deficient mice. Biochemical and Biophysical Research Communications, 2011, 410, 389-393. | 2.1 | 8 |
| 71 | <i><b>Gm7325</b></i><b> is MyoD-dependently expressed in activated muscle satellite </b><b>cells </b>. Biomedical Research, 2017, 38, 215-219. | 0.9 | 8 |
| 72 | DNA maintenance methylation enzyme Dnmt1 in satellite cells is essential for muscle regeneration. Biochemical and Biophysical Research Communications, 2021, 534, 79-85. | 2.1 | 8 |

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|---|---|---|---|
| 73 | Critical role of Frizzled1 in ageâ€related alterations of Wnt/Î²â€catenin signal in myogenic cells during differentiation. Genes To Cells, 2014, 19, 287-296. | 1.2 | 7 |
| 74 | An herbal medicine, Go-sha-jinki-gan (GJG), increases muscle weight in severe muscle dystrophy model mice. Clinical Nutrition Experimental, 2017, 16, 13-23. | 2.0 | 7 |
| 75 | Exercise/Resistance Training and Muscle Stem Cells. Endocrinology and Metabolism, 2021, 36, 737-744. | 3.0 | 7 |
| 76 | Dlk1 regulates quiescence in calcitonin receptor-mutant muscle stem cells. Stem Cells, 2021, 39, 306-317. | 3.2 | 5 |
| 77 | Expression of mdr1 is required for efficient long term regeneration of dystrophic muscle. Experimental Cell Research, 2007, 313, 2438-2450. | 2.6 | 4 |
| 78 | Reduced expression of calcitonin receptor is closely associated with ageâ€related loss of the muscle stem cell pool. JCSM Rapid Communications, 2019, 2, 1-13. | 1.6 | 4 |
| 79 | Uhrf1 governs the proliferation and differentiation of muscle satellite cells. IScience, 2022, 25, 103928. | 4.1 | 4 |
| 80 | Androgen receptor in satellite cells is not essential for muscle regenerations. Experimental Results, 2020, 1, . | 0.6 | 3 |
| 81 | Implication of satellite cell behaviors in capillary growth via VEGF expression-independent mechanism in response to mechanical loading in HeyL-null mice. American Journal of Physiology - Cell Physiology, 2022, 322, C275-C282. | 4.6 | 3 |
| 82 | Regulation of Muscle Stem Cell Quiescent and Undifferentiated State: Roles of Hesr1 and Hesr3 Genes. , 2013, , 107-116. | | 2 |
| 83 | Muscle Satellite Cells and Duchenne Muscular Dystrophy. , 2012, , . | | 1 |
| 84 | Detection of muscle stem cell-derived myonuclei in murine overloaded muscles. STAR Protocols, 2022, 3, 101307. | 1.2 | 1 |
| 85 | G.P.5 06 Dislocated neuronal nitric oxide synthase results in muscle atrophy during tail suspension. Neuromuscular Disorders, 2006, 16, 692-693. | 0.6 | 0 |
| 86 | 36. Transplantation of SM/C-2.6+ Satellite Cells Transduced with Micro-Dystrophin CS1 cDNA by Lentiviral Vector into mdx Mice. Molecular Therapy, 2006, 13, S15. | 8.2 | 0 |
| 87 | P74. Age-related changes in prospectively isolated muscle satellite cells. Differentiation, 2010, 80, S41-S42. | 1.9 | 0 |
| 88 | Toward Regenerative Medicine for Muscular Dystrophies. , 2016, , 103-122. | | 0 |
| 89 | Gm7325 Transcription Is Regulated by MyoD in Activated Muscle Satellite Cells. Biophysical Journal, 2018, 114, 628a. | 0.5 | 0 |