Mitsuru Mizuno

List of Publications by Year in descending order

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48 papers	1,076 citations	430874 18 h-index	434195 31 g-index
55 all docs	55 docs citations	55 times ranked	1181 citing authors

#	Article	IF	Citations
1	Synovial mesenchymal stem cells promote healing after meniscal repair in microminipigs. Osteoarthritis and Cartilage, 2015, 23, 1007-1017.	1.3	110
2	Additional Use of Synovial Mesenchymal Stem Cell Transplantation Following Surgical Repair of a Complex Degenerative Tear of the Medial Meniscus of the Knee: A Case Report. Cell Transplantation, 2019, 28, 1445-1454.	2.5	66
3	Canine mesenchymal stem cells from synovium have a higher chondrogenic potential than those from infrapatellar fat pad, adipose tissue, and bone marrow. PLoS ONE, 2018, 13, e0202922.	2.5	60
4	Transplantation of autologous synovial mesenchymal stem cells promotes meniscus regeneration in aged primates. Journal of Orthopaedic Research, 2017, 35, 1274-1282.	2.3	59
5	Presence of Cartilage Stem/Progenitor Cells in Adult Mice Auricular Perichondrium. PLoS ONE, 2011, 6, e26393.	2.5	55
6	Synovial Mesenchymal Stem Cells Promote Meniscus Regeneration Augmented by an Autologous Achilles Tendon Graft in a Rat Partial Meniscus Defect Model. Stem Cells, 2015, 33, 1927-1938.	3.2	51
7	Trends in isolated meniscus repair and meniscectomy in Japan, 2011â€“2016. Journal of Orthopaedic Science, 2018, 23, 676-681.	1.1	43
8	Specific markers and properties of synovial mesenchymal stem cells in the surface, stromal, and perivascular regions. Stem Cell Research and Therapy, 2018, 9, 123.	5.5	43
9	Cartilage Derived from Bone Marrow Mesenchymal Stem Cells Expresses Lubricin In Vitro and In Vivo. PLoS ONE, 2016, 11, e0148777.	2.5	40
10	Fibrous Synovium Releases Higher Numbers of Mesenchymal Stem Cells Than Adipose Synovium in a Suspended Synovium Culture Model. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2017, 33, 800-810.	2.7	33
11	Transplantation of Aggregates of Autologous Synovial Mesenchymal Stem Cells for Treatment of Cartilage Defects in the Femoral Condyle and the Femoral Groove in Microminipigs. American Journal of Sports Medicine, 2019, 47, 2338-2347.	4.2	33
12	Mesenchymal stem cells for cartilage regeneration in dogs. World Journal of Stem Cells, 2019, 11, 254-269.	2.8	33
13	Platelet-derived growth factor (PDGF)-AA/AB in human serum are potential indicators of the proliferative capacity of human synovial mesenchymal stem cells. Stem Cell Research and Therapy, 2015, 6, 243.	5.5	28
14	Yields and chondrogenic potential of primary synovial mesenchymal stem cells are comparable between rheumatoid arthritis and osteoarthritis patients. Stem Cell Research and Therapy, 2017, 8, 115.	5.5	26
15	Biomechanical analysis of the centralization procedure for extruded lateral menisci with posterior root deficiency in a porcine model. Journal of Orthopaedic Science, 2020, 25, 161-166.	1.1	26
16	Transient vascularization of transplanted human adultâ€“derived progenitors promotes self-organizing cartilage. Journal of Clinical Investigation, 2014, 124, 4325-4334.	8.2	25
17	Comparison of Highâ€Hydrostaticâ€Pressure Decellularized Versus Freezeâ€Thawed Porcine Menisci. Journal of Orthopaedic Research, 2019, 37, 2466-2475.	2.3	24
18	Synovial mesenchymal stem cells promote the meniscus repair in a novel pig meniscus injury model. Journal of Orthopaedic Research, 2021, 39, 177-183.	2.3	23

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19	Brief Report: Reconstruction of Joint Hyaline Cartilage by Autologous Progenitor Cells Derived from Ear Elastic Cartilage. Stem Cells, 2014, 32, 816-821.	3.2	20
20	TNFÎ± promotes proliferation of human synovial MSCs while maintaining chondrogenic potential. PLoS ONE, 2017, 12, e0177771.	2.5	20
21	Complete human serum maintains viability and chondrogenic potential of human synovial stem cells: suitable conditions for transplantation. Stem Cell Research and Therapy, 2017, 8, 144.	5.5	17
22	The effect of a centralization procedure for extruded lateral meniscus on load distribution in porcine knee joints at different flexion angles. BMC Musculoskeletal Disorders, 2020, 21, 205.	1.9	17
23	Biomechanical analysis of a centralization procedure for extruded lateral meniscus after meniscectomy in porcine knee joints. Journal of Orthopaedic Research, 2022, 40, 1097-1103.	2.3	17
24	High-sensitivity virus and mycoplasma screening test reveals high prevalence of parvovirus B19 infection in human synovial tissues and bone marrow. Stem Cell Research and Therapy, 2018, 9, 80.	5.5	16
25	Alterations in cartilage quantification before and after injections of mesenchymal stem cells into osteoarthritic knees. Scientific Reports, 2021, 11, 13832.	3.3	16
26	Transplantation of Human Autologous Synovial Mesenchymal Stem Cells with Trisomy 7 into the Knee Joint and 5â€‰Years of Follow-up. Stem Cells Translational Medicine, 2021, 10, 1530-1543.	3.3	16
27	Cryopreservation in 95% serum with 5% DMSO maintains colony formation and chondrogenic abilities in human synovial mesenchymal stem cells. BMC Musculoskeletal Disorders, 2019, 20, 316.	1.9	15
28	Initial cell plating density affects properties of human primary synovial mesenchymal stem cells. Journal of Orthopaedic Research, 2019, 37, 1358-1367.	2.3	14
29	Mesenchymal Stem Cells in Synovial Fluid Increase in Knees with Degenerative Meniscus Injury after Arthroscopic Procedures through the Endogenous Effects of CGRP and HGF. Stem Cell Reviews and Reports, 2020, 16, 1305-1315.	3.8	14
30	Anterior cruciate ligament-derived mesenchymal stromal cells have a propensity to differentiate into the ligament lineage. Regenerative Therapy, 2018, 8, 20-28.	3.0	13
31	Projected Cartilage Area Ratio Determined by 3-Dimensional MRI Analysis. JBJS Open Access, 2019, 4, e0010.	1.5	13
32	Comparison of mesenchymal stem cells obtained by suspended culture of synovium from patients with rheumatoid arthritis and osteoarthritis. BMC Musculoskeletal Disorders, 2018, 19, 78.	1.9	12
33	Cell membrane fluidity and ROS resistance define DMSO tolerance of cryopreserved synovial MSCs and HUVECs. Stem Cell Research and Therapy, 2022, 13, 177.	5.5	12
34	The environmental risk assessment of cell-processing facilities for cell therapy in a Japanese academic institution. PLoS ONE, 2020, 15, e0236600.	2.5	10
35	Morphological changes in synovial mesenchymal stem cells during their adhesion to the meniscus. Laboratory Investigation, 2020, 100, 916-927.	3.7	10
36	Second-look arthroscopy after meniscus repair and synovial mesenchymal stem cell transplantation to treat degenerative flaps and radial tears of the medial meniscus: A case report. Journal of Orthopaedic Science, 2022, 27, 821-834.	1.1	10

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37	Time-lapse image analysis for whole colony growth curves and daily distribution of the cell number per colony during the expansion of mesenchymal stem cells. Scientific Reports, 2019, 9, 16835.	3.3	7
38	Thawed cryopreserved synovial mesenchymal stem cells show comparable effects to cultured cells in the inhibition of osteoarthritis progression in rats. Scientific Reports, 2021, 11, 9683.	3.3	6
39	Optimal Pore Size of Honeycomb Polylactic Acid Films for In Vitro Cartilage Formation by Synovial Mesenchymal Stem Cells. Stem Cells International, 2021, 2021, 1-9.	2.5	6
40	Petaloid recombinant peptide enhances in vitro cartilage formation by synovial mesenchymal stem cells. Journal of Orthopaedic Research, 2019, 37, 1350-1357.	2.3	4
41	Ultrasound-Guided Harvesting of Synovium for Regenerative Medicine of Cartilage and Meniscus Using Synovial Mesenchymal Stem Cells. Arthroscopy Techniques, 2021, 10, e1723-e1727.	1.3	3
42	Yields of mesenchymal stromal cells from synovial fluid reflect those from synovium in patients with rheumatoid arthritis. Tissue and Cell, 2022, 75, 101727.	2.2	3
43	Safety of using cultured cells with trisomy 7 in cell therapy for treating osteoarthritis. Regenerative Therapy, 2022, 21, 81-86.	3.0	3
44	Twoâ€•and threeâ€dimensional optical coherence tomography to differentiate degenerative changes in a rat meniscectomy model. Journal of Orthopaedic Research, 2020, 38, 2592-2600.	2.3	1
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