

# Ichiro Sekiya

## List of Publications by Citations

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162  
papers

9,230  
citations

39  
h-index

95  
g-index

188  
ext. papers

10,240  
ext. citations

4.1  
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5.92  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 162 | Comparison of human stem cells derived from various mesenchymal tissues: superiority of synovium as a cell source. <i>Arthritis and Rheumatism</i> , <b>2005</b> , 52, 2521-9   |      | 1143      |
| 161 | Expansion of human adult stem cells from bone marrow stroma: conditions that maximize the yields of early progenitors and evaluate their quality. <i>Stem Cells</i> , <b>2002</b> , 20, 530-41  | 5.8  | 793       |
| 160 | In vitro cartilage formation by human adult stem cells from bone marrow stroma defines the sequence of cellular and molecular events during chondrogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 4397-402 | 11.5 | 558       |
| 159 | Comparison of rat mesenchymal stem cells derived from bone marrow, synovium, periosteum, adipose tissue, and muscle. <i>Cell and Tissue Research</i> , <b>2007</b> , 327, 449-62  | 4.2  | 557       |
| 158 | A prospective randomized study of 4-strand semitendinosus tendon anterior cruciate ligament reconstruction comparing single-bundle and double-bundle techniques. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2007</b> , 23, 618-28                    | 5.4  | 363       |
| 157 | Two-bundle reconstruction of the anterior cruciate ligament using semitendinosus tendon with endobuttons: operative technique and preliminary results. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>1999</b> , 15, 618-24                              | 5.4  | 291       |
| 156 | BMP-6 enhances chondrogenesis in a subpopulation of human marrow stromal cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 284, 411-8   | 3.4  | 260       |
| 155 | Comparison of effect of BMP-2, -4, and -6 on in vitro cartilage formation of human adult stem cells from bone marrow stroma. <i>Cell and Tissue Research</i> , <b>2005</b> , 320, 269-76  | 4.2  | 256       |
| 154 | Adipogenic differentiation of human adult stem cells from bone marrow stroma (MSCs). <i>Journal of Bone and Mineral Research</i> , <b>2004</b> , 19, 256-64   | 6.3  | 226       |
| 153 | In vitro chondrogenesis of human synovium-derived mesenchymal stem cells: optimal condition and comparison with bone marrow-derived cells. <i>Journal of Cellular Biochemistry</i> , <b>2006</b> , 97, 84-97  | 4.7  | 225       |
| 152 | Comparison of mesenchymal tissues-derived stem cells for in vivo chondrogenesis: suitable conditions for cell therapy of cartilage defects in rabbit. <i>Cell and Tissue Research</i> , <b>2008</b> , 333, 207-15   | 4.2  | 222       |
| 151 | Higher chondrogenic potential of fibrous synovium- and adipose synovium-derived cells compared with subcutaneous fat-derived cells: distinguishing properties of mesenchymal stem cells in humans. <i>Arthritis and Rheumatism</i> , <b>2006</b> , 54, 843-53                   |      | 219       |
| 150 | Intra-articular Injected synovial stem cells differentiate into meniscal cells directly and promote meniscal regeneration without mobilization to distant organs in rat massive meniscal defect. <i>Stem Cells</i> , <b>2009</b> , 27, 878-87                                   | 5.8  | 198       |
| 149 | Suspended cells from trabecular bone by collagenase digestion become virtually identical to mesenchymal stem cells obtained from marrow aspirates. <i>Blood</i> , <b>2004</b> , 104, 2728-35  | 2.2  | 183       |
| 148 | Mesenchymal stem cells derived from synovium, meniscus, anterior cruciate ligament, and articular chondrocytes share similar gene expression profiles. <i>Journal of Orthopaedic Research</i> , <b>2009</b> , 27, 435-41  | 3.8  | 160       |
| 147 | Human mesenchymal stem cells in synovial fluid increase in the knee with degenerated cartilage and osteoarthritis. <i>Journal of Orthopaedic Research</i> , <b>2012</b> , 30, 943-9   | 3.8  | 155       |
| 146 | Arthroscopic Transplantation of Synovial Stem Cells Improves Clinical Outcomes in Knees With Cartilage Defects. <i>Clinical Orthopaedics and Related Research</i> , <b>2015</b> , 473, 2316-26  | 2.2  | 152       |

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|-----|---|-----|-----|
| 145 | Synovial stem cells are regionally specified according to local microenvironments after implantation for cartilage regeneration. <i>Stem Cells</i> , <b>2007</b> , 25, 689-96   | 5.8 | 151 |
| 144 | Local adherent technique for transplanting mesenchymal stem cells as a potential treatment of cartilage defect. <i>Arthritis Research and Therapy</i> , <b>2008</b> , 10, R84   | 5.7 | 146 |
| 143 | Increased proliferation of human synovial mesenchymal stem cells with autologous human serum: comparisons with bone marrow mesenchymal stem cells and with fetal bovine serum. <i>Arthritis and Rheumatism</i> , <b>2008</b> , 58, 501-10                                   |     | 137 |
| 142 | Basic Science of Articular Cartilage. <i>Clinics in Sports Medicine</i> , <b>2017</b> , 36, 413-425   | 2.6 | 133 |
| 141 | Intradiscal transplantation of synovial mesenchymal stem cells prevents intervertebral disc degeneration through suppression of matrix metalloproteinase-related genes in nucleus pulposus cells in rabbits. <i>Arthritis Research and Therapy</i> , <b>2010</b> , 12, R206 | 5.7 | 104 |
| 140 | Implantation of allogenic synovial stem cells promotes meniscal regeneration in a rabbit meniscal defect model. <i>Journal of Bone and Joint Surgery - Series A</i> , <b>2012</b> , 94, 701-12  | 5.6 | 101 |
| 139 | Mesenchymal stem cells in synovial fluid increase after meniscus injury. <i>Clinical Orthopaedics and Related Research</i> , <b>2014</b> , 472, 1357-64   | 2.2 | 94  |
| 138 | Arthroscopic, histological and MRI analyses of cartilage repair after a minimally invasive method of transplantation of allogeneic synovial mesenchymal stromal cells into cartilage defects in pigs. <i>Cytotherapy</i> , <b>2012</b> , 14, 327-38                         | 4.8 | 91  |
| 137 | Properties and usefulness of aggregates of synovial mesenchymal stem cells as a source for cartilage regeneration. <i>Arthritis Research and Therapy</i> , <b>2012</b> , 14, R136   | 5.7 | 80  |
| 136 | Analysis of the chondrogenic potential of human synovial stem cells according to harvest site and culture parameters in knees with medial compartment osteoarthritis. <i>Arthritis and Rheumatism</i> , <b>2008</b> , 58, 1389-98   |     | 77  |
| 135 | Effects of Different Cell-Detaching Methods on the Viability and Cell Surface Antigen Expression of Synovial Mesenchymal Stem Cells. <i>Cell Transplantation</i> , <b>2017</b> , 26, 1089-1102  | 4   | 74  |
| 134 | Intraarticular injection of synovial stem cells promotes meniscal regeneration in a rabbit massive meniscal defect model. <i>Journal of Orthopaedic Research</i> , <b>2013</b> , 31, 1354-9   | 3.8 | 74  |
| 133 | Purified Human Synovium Mesenchymal Stem Cells as a Good Resource for Cartilage Regeneration. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129096  | 3.7 | 70  |
| 132 | Isolation and characterization of multipotential mesenchymal cells from the mouse synovium. <i>PLoS ONE</i> , <b>2012</b> , 7, e45517   | 3.7 | 68  |
| 131 | Transcription factor Mohawk controls tenogenic differentiation of bone marrow mesenchymal stem cells in vitro and in vivo. <i>Journal of Orthopaedic Research</i> , <b>2015</b> , 33, 1-8   | 3.8 | 66  |
| 130 | Weekly intra-articular injections of bone morphogenetic protein-7 inhibits osteoarthritis progression. <i>Arthritis Research and Therapy</i> , <b>2008</b> , 10, R118   | 5.7 | 52  |
| 129 | Transplantation of autologous synovial mesenchymal stem cells promotes meniscus regeneration in aged primates. <i>Journal of Orthopaedic Research</i> , <b>2017</b> , 35, 1274-1282   | 3.8 | 50  |
| 128 | Transplantation of aggregates of synovial mesenchymal stem cells regenerates meniscus more effectively in a rat massive meniscal defect. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 435, 603-9  | 3.4 | 50  |

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|-----|---|-----|----|
| 127 | Lateral meniscus posterior root tear contributes to anterolateral rotational instability and meniscus extrusion in anterior cruciate ligament-injured patients. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2018</b> , 26, 1174-1181 | 5.5 | 41 |
| 126 | Effect of cell culture density on dental pulp-derived mesenchymal stem cells with reference to osteogenic differentiation. <i>Scientific Reports</i> , <b>2019</b> , 9, 5430  | 4.9 | 41 |
| 125 | Isolation and Characterization of Synovial Mesenchymal Stem Cell Derived from Hip Joints: A Comparative Analysis with a Matched Control Knee Group. <i>Stem Cells International</i> , <b>2017</b> , 2017, 9312329 <sup>5</sup>                      |     | 41 |
| 124 | Exogenous synovial stem cells adhere to defect of meniscus and differentiate into cartilage cells. <i>Journal of Medical and Dental Sciences</i> , <b>2008</b> , 55, 101-11   |     | 40 |
| 123 | Two-Year Outcomes After Arthroscopic Lateral Meniscus Centralization. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2016</b> , 32, 2000-2008  | 5.4 | 39 |
| 122 | Synovial mesenchymal stem cells promote meniscus regeneration augmented by an autologous Achilles tendon graft in a rat partial meniscus defect model. <i>Stem Cells</i> , <b>2015</b> , 33, 1927-38  | 5.8 | 38 |
| 121 | Transplantation of Achilles tendon treated with bone morphogenetic protein 7 promotes meniscus regeneration in a rat model of massive meniscal defect. <i>Arthritis and Rheumatism</i> , <b>2013</b> , 65, 2876-86                                  |     | 38 |
| 120 | Periodic knee injections of BMP-7 delay cartilage degeneration induced by excessive running in rats. <i>Journal of Orthopaedic Research</i> , <b>2009</b> , 27, 1088-92   | 3.8 | 38 |
| 119 | Autologous synovial fluid enhances migration of mesenchymal stem cells from synovium of osteoarthritis patients in tissue culture system. <i>Journal of Orthopaedic Research</i> , <b>2008</b> , 26, 1413-8   | 3.8 | 38 |
| 118 | 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. <i>Cell Transplantation</i> , <b>2019</b> , 28, 1445-1454              | 4   | 37 |
| 117 | Canine mesenchymal stem cells from synovium have a higher chondrogenic potential than those from infrapatellar fat pad, adipose tissue, and bone marrow. <i>PLoS ONE</i> , <b>2018</b> , 13, e0202922   | 3.7 | 35 |
| 116 | Serum keratan sulfate transiently increases in the early stage of osteoarthritis during strenuous running of rats: protective effect of intraarticular hyaluronan injection. <i>Arthritis Research and Therapy</i> , <b>2008</b> , 10, R13          | 5.7 | 34 |
| 115 | Evaluation of pivot shift phenomenon while awake and under anaesthesia by different manoeuvres using triaxial accelerometer. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2017</b> , 25, 2377-2383                                    | 5.5 | 32 |
| 114 | Hyperbaric oxygen reduces inflammation, oxygenates injured muscle, and regenerates skeletal muscle via macrophage and satellite cell activation. <i>Scientific Reports</i> , <b>2018</b> , 8, 1288  | 4.9 | 32 |
| 113 | Morphological differences during in vitro chondrogenesis of bone marrow-, synovium-MSCs, and chondrocytes. <i>Laboratory Investigation</i> , <b>2010</b> , 90, 210-21   | 5.9 | 32 |
| 112 | Arthroscopic centralization of an extruded lateral meniscus. <i>Arthroscopy Techniques</i> , <b>2012</b> , 1, e209-12   | 1.7 | 31 |
| 111 | Cartilage Derived from Bone Marrow Mesenchymal Stem Cells Expresses Lubricin In Vitro and In Vivo. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148777   | 3.7 | 31 |
| 110 | Augmentation of the Pullout Repair of a Medial Meniscus Posterior Root Tear by Arthroscopic Centralization. <i>Arthroscopy Techniques</i> , <b>2017</b> , 6, e1335-e1339  | 1.7 | 30 |

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| 109 | Centralization of extruded medial meniscus delays cartilage degeneration in rats. <i>Journal of Orthopaedic Science</i> , <b>2017</b> , 22, 542-548  | 1.6 | 29 |
| 108 | Transcriptional suppression of Sox9 expression in chondrocytes by retinoic acid. <i>Journal of Cellular Biochemistry</i> , <b>2001</b> , Suppl 36, 71-8  | 4.7 | 29 |
| 107 | Trends in isolated meniscus repair and meniscectomy in Japan, 2011-2016. <i>Journal of Orthopaedic Science</i> , <b>2018</b> , 23, 676-681   | 1.6 | 27 |
| 106 | Specific markers and properties of synovial mesenchymal stem cells in the surface, stromal, and perivascular regions. <i>Stem Cell Research and Therapy</i> , <b>2018</b> , 9, 123   | 8.3 | 27 |
| 105 | Prospectively isolated mesenchymal stem/stromal cells are enriched in the CD73 population and exhibit efficacy after transplantation. <i>Scientific Reports</i> , <b>2017</b> , 7, 4838  | 4.9 | 27 |
| 104 | Comparison of Gingiva, Dental Pulp, and Periodontal Ligament Cells From the Standpoint of Mesenchymal Stem Cell Properties. <i>Cell Medicine</i> , <b>2012</b> , 4, 13-21  | 4.9 | 27 |
| 103 | Mouse synovial mesenchymal stem cells increase in yield with knee inflammation. <i>Journal of Orthopaedic Research</i> , <b>2015</b> , 33, 246-53  | 3.8 | 26 |
| 102 | Meniscus regeneration by syngeneic, minor mismatched, and major mismatched transplantation of synovial mesenchymal stem cells in a rat model. <i>Journal of Orthopaedic Research</i> , <b>2014</b> , 32, 928-36                  | 3.8 | 26 |
| 101 | Fibrous Synovium Releases Higher Numbers of Mesenchymal Stem Cells Than Adipose Synovium in a Suspended Synovium Culture Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2017</b> , 33, 800-810     | 5.4 | 24 |
| 100 | Yields and chondrogenic potential of primary synovial mesenchymal stem cells are comparable between rheumatoid arthritis and osteoarthritis patients. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 115               | 8.3 | 24 |
| 99  | Intraoperative joint gaps and mediolateral balance affect postoperative knee kinematics in posterior-stabilized total knee arthroplasty. <i>Knee</i> , <b>2015</b> , 22, 527-34  | 2.6 | 24 |
| 98  | Closed Suction Drainage Is Not Necessary for Total Knee Arthroplasty: A Prospective Study on Simultaneous Bilateral Surgeries of a Mean Follow-Up of 5.5 Years. <i>Journal of Arthroplasty</i> , <b>2016</b> , 31, 641-5         | 4.4 | 23 |
| 97  | Fibroblast growth factor-23 induces cellular senescence in human mesenchymal stem cells from skeletal muscle. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 470, 657-662                            | 3.4 | 23 |
| 96  | Elimination of BMP7 from the developing limb mesenchyme leads to articular cartilage degeneration and synovial inflammation with increased age. <i>FEBS Letters</i> , <b>2015</b> , 589, 1240-8                                  | 3.8 | 22 |
| 95  | Platelet-derived growth factor (PDGF)-AA/AB in human serum are potential indicators of the proliferative capacity of human synovial mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , <b>2015</b> , 6, 243         | 8.3 | 21 |
| 94  | Effect of meniscus repair on pivot-shift during anterior cruciate ligament reconstruction: Objective evaluation using triaxial accelerometer. <i>Knee</i> , <b>2019</b> , 26, 124-131  | 2.6 | 21 |
| 93  | Stem cells in degenerative orthopaedic pathologies: effects of aging on therapeutic potential. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2017</b> , 25, 626-636   | 5.5 | 20 |
| 92  | A new behind-remnant approach for remnant-preserving double-bundle anterior cruciate ligament reconstruction compared with a standard approach. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2015</b> , 23, 3743-9 | 5.5 | 20 |

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| 91 | Recapitulation of Extracellular LAMININ Environment Maintains Stemness of Satellite Cells In Vitro. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 568-582  | 8   | 20 |
| 90 | Transplantation of Aggregates of Autologous Synovial Mesenchymal Stem Cells for Treatment of Cartilage Defects in the Femoral Condyle and the Femoral Groove in Microminipigs. <i>American Journal of Sports Medicine</i> , <b>2019</b> , 47, 2338-2347                                     | 6.8 | 20 |
| 89 | Pretreatment with IL-1 $\beta$ enhances proliferation and chondrogenic potential of synovium-derived mesenchymal stem cells. <i>Cytotherapy</i> , <b>2017</b> , 19, 181-193   | 4.8 | 19 |
| 88 | Mesenchymal stem cells for cartilage regeneration in dogs. <i>World Journal of Stem Cells</i> , <b>2019</b> , 11, 254-269   | 6   | 19 |
| 87 | BMP-7 inhibits cartilage degeneration through suppression of inflammation in rat zymosan-induced arthritis. <i>Cell and Tissue Research</i> , <b>2011</b> , 344, 321-32   | 4.2 | 19 |
| 86 | Ketoprofen absorption by muscle and tendon after topical or oral administration in patients undergoing anterior cruciate ligament reconstruction. <i>AAPS PharmSciTech</i> , <b>2010</b> , 11, 154-8  | 3.9 | 19 |
| 85 | Intra-articular Injection of Pure Platelet-Rich Plasma Is the Most Effective Treatment for Joint Pain by Modulating Synovial Inflammation and Calcitonin Gene-Related Peptide Expression in a Rat Arthritis Model. <i>American Journal of Sports Medicine</i> , <b>2020</b> , 48, 2004-2012 | 6.8 | 17 |
| 84 | Effect of Initial Graft Tension on Knee Stability and Graft Tension Pattern in Double-Bundle Anterior Cruciate Ligament Reconstruction. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2015</b> , 31, 1756-63  | 5.4 | 16 |
| 83 | Persistent synovial inflammation plays important roles in persistent pain development in the rat knee before cartilage degradation reaches the subchondral bone. <i>BMC Musculoskeletal Disorders</i> , <b>2018</b> , 19, 291   | 2.8 | 15 |
| 82 | Synovial Mesenchymal Stem Cells Derived From the Cotyloid Fossa Synovium Have Higher Self-renewal and Differentiation Potential Than Those From the Paralabral Synovium in the Hip Joint. <i>American Journal of Sports Medicine</i> , <b>2018</b> , 46, 2942-2953                          | 6.8 | 15 |
| 81 | TNF $\alpha$ promotes proliferation of human synovial MSCs while maintaining chondrogenic potential. <i>PLoS ONE</i> , <b>2017</b> , 12, e0177771   | 3.7 | 14 |
| 80 | Fibrous change of the infrapatellar fat pad due to strenuous running exercise and its treatment with intraarticular hyaluronan injection in a rat model. <i>Journal of Medical and Dental Sciences</i> , <b>2008</b> , 55, 163-73   |     | 14 |
| 79 | Complete human serum maintains viability and chondrogenic potential of human synovial stem cells: suitable conditions for transplantation. <i>Stem Cell Research and Therapy</i> , <b>2017</b> , 8, 144   | 8.3 | 13 |
| 78 | Follistatin alleviates synovitis and articular cartilage degeneration induced by carrageenan. <i>International Journal of Inflammation</i> , <b>2014</b> , 2014, 959271   | 6.4 | 13 |
| 77 | Time course analyses of structural changes in the infrapatellar fat pad and synovial membrane during inflammation-induced persistent pain development in rat knee joint. <i>BMC Musculoskeletal Disorders</i> , <b>2019</b> , 20, 8   | 2.8 | 13 |
| 76 | Biomechanical analysis of the centralization procedure for extruded lateral menisci with posterior root deficiency in a porcine model. <i>Journal of Orthopaedic Science</i> , <b>2020</b> , 25, 161-166  | 1.6 | 13 |
| 75 | Anterior cruciate ligament-derived mesenchymal stromal cells have a propensity to differentiate into the ligament lineage. <i>Regenerative Therapy</i> , <b>2018</b> , 8, 20-28   | 3.7 | 12 |
| 74 | Comparison of High-Hydrostatic-Pressure Decellularized Versus Freeze-Thawed Porcine Menisci. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 2466-2475   | 3.8 | 11 |

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|----|--|-----|----|
| 73 | Relationship between MRI T1 rho value and histological findings of intact and radially incised menisci in microminipigs. <i>Journal of Magnetic Resonance Imaging</i> , <b>2016</b> , 43, 434-45   | 5.6 | 11 |
| 72 | Cryopreservation in 95% serum with 5% DMSO maintains colony formation and chondrogenic abilities in human synovial mesenchymal stem cells. <i>BMC Musculoskeletal Disorders</i> , <b>2019</b> , 20, 316  | 2.8 | 11 |
| 71 | Fibrotic changes in the infrapatellar fat pad induce new vessel formation and sensory nerve fiber endings that associate prolonged pain. <i>Journal of Orthopaedic Research</i> , <b>2020</b> , 38, 1296-1306  | 3.8 | 11 |
| 70 | Projected Cartilage Area Ratio Determined by 3-Dimensional MRI Analysis: Validation of a Novel Technique to Evaluate Articular Cartilage. <i>JBJs Open Access</i> , <b>2019</b> , 4, e0010   | 3.1 | 11 |
| 69 | Synovial mesenchymal stem cells promote the meniscus repair in a novel pig meniscus injury model. <i>Journal of Orthopaedic Research</i> , <b>2021</b> , 39, 177-183   | 3.8 | 11 |
| 68 | Comparison of mesenchymal stem cells obtained by suspended culture of synovium from patients with rheumatoid arthritis and osteoarthritis. <i>BMC Musculoskeletal Disorders</i> , <b>2018</b> , 19, 78   | 2.8 | 10 |
| 67 | Coordinate and synergistic effects of extensive treadmill exercise and ovariectomy on articular cartilage degeneration. <i>BMC Musculoskeletal Disorders</i> , <b>2016</b> , 17, 238   | 2.8 | 10 |
| 66 | Post-Cam Design and Contact Stress on Tibial Posts in Posterior-Stabilized Total Knee Prostheses: Comparison Between a Rounded and a Squared Design. <i>Journal of Arthroplasty</i> , <b>2017</b> , 32, 3757-3762  | 4.4 | 10 |
| 65 | Relationship between medial meniscus extrusion and cartilage measurements in the knee by fully automatic three-dimensional MRI analysis. <i>BMC Musculoskeletal Disorders</i> , <b>2020</b> , 21, 742  | 2.8 | 10 |
| 64 | Differentiation Potential of Synovial Mesenchymal Stem Cells Isolated From Hip Joints Affected by Femoroacetabular Impingement Syndrome Versus Osteoarthritis. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , <b>2020</b> , 36, 2122-2133        | 5.4 | 9  |
| 63 | Synovial fluid-derived mesenchymal cells have non-inferior chondrogenic potential and can be utilized for regenerative therapy as substitute for synovium-derived cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 523, 465-472     | 3.4 | 9  |
| 62 | High-sensitivity virus and mycoplasma screening test reveals high prevalence of parvovirus B19 infection in human synovial tissues and bone marrow. <i>Stem Cell Research and Therapy</i> , <b>2018</b> , 9, 80  | 8.3 | 8  |
| 61 | Initial cell plating density affects properties of human primary synovial mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 1358-1367   | 3.8 | 8  |
| 60 | Meniscal regeneration after resection of the anterior half of the medial meniscus in mice. <i>Journal of Orthopaedic Research</i> , <b>2017</b> , 35, 1958-1965  | 3.8 | 8  |
| 59 | Inflammatory cytokine levels in synovial fluid 3, 4 days postoperatively and its correlation with early-phase functional recovery after anterior cruciate ligament reconstruction: a cohort study. <i>Journal of Experimental Orthopaedics</i> , <b>2016</b> , 3, 30 | 2.3 | 8  |
| 58 | Synovial stem cells in musculoskeletal regeneration. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , <b>2013</b> , 21, 258-9   | 4.5 | 7  |
| 57 | Mesenchymal Stem Cells in Synovial Fluid Increase in Knees with Degenerative Meniscus Injury after Arthroscopic Procedures through the Endogenous Effects of CGRP and HGF. <i>Stem Cell Reviews and Reports</i> , <b>2020</b> , 16, 1305-1315                        | 7.3 | 7  |
| 56 | Weekly injections of Hylan G-F 20 delay cartilage degeneration in partial meniscectomized rat knees. <i>BMC Musculoskeletal Disorders</i> , <b>2016</b> , 17, 188  | 2.8 | 6  |

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| 55 | Acute arterial occlusion after total knee arthroplasty: a case report. <i>Clinical Case Reports (discontinued)</i> , <b>2017</b> , 5, 1376-1380  | 0.7 | 6 |
| 54 | A Biomechanical Comparison of Three Miniature Locking Plate Systems in a Rabbit Radial and Ulnar Fracture Model. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , <b>2019</b> , 32, 297-304   | 1.2 | 5 |
| 53 | Trends in arthroplasty in Japan by a complete survey, 2014-2017. <i>Journal of Orthopaedic Science</i> , <b>2021</b> , 26, 812-822   | 1.6 | 5 |
| 52 | Bone regeneration by calcium phosphate-loaded carboxymethyl cellulose nonwoven sheets in canine femoral condyle defects. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 1516-1521                                  | 3.5 | 5 |
| 51 | The effect of a centralization procedure for extruded lateral meniscus on load distribution in porcine knee joints at different flexion angles. <i>BMC Musculoskeletal Disorders</i> , <b>2020</b> , 21, 205   | 2.8 | 5 |
| 50 | Morphological changes in synovial mesenchymal stem cells during their adhesion to the meniscus. <i>Laboratory Investigation</i> , <b>2020</b> , 100, 916-927   | 5.9 | 4 |
| 49 | The effect of a longitudinal tear of the medial meniscus on medial meniscal extrusion in anterior cruciate ligament injury patients. <i>Knee</i> , <b>2019</b> , 26, 1292-1298   | 2.6 | 4 |
| 48 | Strenuous running exacerbates knee cartilage erosion induced by low amount of mono-iodoacetate in rats. <i>BMC Musculoskeletal Disorders</i> , <b>2017</b> , 18, 36  | 2.8 | 4 |
| 47 | Characteristics of MSCs in Synovial Fluid and Mode of Action of Intra-Articular Injections of Synovial MSCs in Knee Osteoarthritis. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,   | 6.3 | 4 |
| 46 | Arthroscopic Centralization Using Knotless Anchors for Extruded Medial Meniscus. <i>Arthroscopy Techniques</i> , <b>2021</b> , 10, e639-e645   | 1.7 | 4 |
| 45 | Knee laxity, lateral meniscus tear and distal femur morphology influence pivot shift test grade in ACL injury patients. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2021</b> , 29, 633-640  | 5.5 | 4 |
| 44 | Inhibition of fibrotic changes in infrapatellar fat pad alleviates persistent pain and articular cartilage degeneration in monoiodoacetic acid-induced rat arthritis model. <i>Osteoarthritis and Cartilage</i> , <b>2021</b> , 29, 380-388                            | 6.2 | 4 |
| 43 | Petaloid recombinant peptide enhances in vitro cartilage formation by synovial mesenchymal stem cells. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 1350-1357  | 3.8 | 3 |
| 42 | Risk factors for residual anterolateral rotational instability after double bundle anterior cruciate ligament reconstruction: Evaluation by quantitative assessment of the pivot shift phenomenon using triaxial accelerometer. <i>Knee</i> , <b>2020</b> , 27, 95-101 | 2.6 | 3 |
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