

Johanne Martel-Pelletier

List of Publications by Year in descending order

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Version: 2024-02-01

217
papers

17,701
citations

11651

70
h-index

14759

127
g-index

272
all docs

272
docs citations

272
times ranked

13319
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Role of proinflammatory cytokines in the pathophysiology of osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2011, 7, 33-42. | 8.0 | 1,973 |
| 2 | Osteoarthritis. <i>Nature Reviews Disease Primers</i> , 2016, 2, 16072. | 30.5 | 1,011 |
| 3 | Safety and efficacy of long-term intraarticular steroid injections in osteoarthritis of the knee: A randomized, double-blind, placebo-controlled trial. <i>Arthritis and Rheumatism</i> , 2003, 48, 370-377. | 6.7 | 452 |
| 4 | Cartilage in normal and osteoarthritis conditions. <i>Best Practice and Research in Clinical Rheumatology</i> , 2008, 22, 351-384. | 3.3 | 424 |
| 5 | An algorithm recommendation for the management of knee osteoarthritis in Europe and internationally: A report from a task force of the European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ESCEO). <i>Seminars in Arthritis and Rheumatism</i> , 2014, 44, 253-263. | 3.4 | 414 |
| 6 | An updated algorithm recommendation for the management of knee osteoarthritis from the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO). <i>Seminars in Arthritis and Rheumatism</i> , 2019, 49, 337-350. | 3.4 | 392 |
| 7 | In vivo suppression of early experimental osteoarthritis by interleukin-1 receptor antagonist using gene therapy. <i>Arthritis and Rheumatism</i> , 1997, 40, 1012-1019. | 6.7 | 353 |
| 8 | Chondroprotective effect of intraarticular injections of interleukin-1 receptor antagonist in experimental osteoarthritis. Suppression of collagenase-1 expression. <i>Arthritis and Rheumatism</i> , 1996, 39, 1535-1544. | 6.7 | 338 |
| 9 | Cartilage-specific deletion of mTOR upregulates autophagy and protects mice from osteoarthritis. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 1432-1440. | 0.9 | 322 |
| 10 | Quantitative magnetic resonance imaging evaluation of knee osteoarthritis progression over two years and correlation with clinical symptoms and radiologic changes. <i>Arthritis and Rheumatism</i> , 2004, 50, 476-487. | 6.7 | 235 |
| 11 | Metalloproteases and inhibitors in arthritic diseases. <i>Best Practice and Research in Clinical Rheumatology</i> , 2001, 15, 805-829. | 3.3 | 233 |
| 12 | Selective inhibition of inducible nitric oxide synthase reduces progression of experimental osteoarthritis in vivo: Possible link with the reduction in chondrocyte apoptosis and caspase 3 level. <i>Arthritis and Rheumatism</i> , 2000, 43, 1290-1299. | 6.7 | 217 |
| 13 | Regulation of the IGFBP-5 and MMP-13 genes by the microRNAs miR-140 and miR-27a in human osteoarthritic chondrocytes. <i>BMC Musculoskeletal Disorders</i> , 2009, 10, 148. | 1.9 | 209 |
| 14 | Pathophysiology of osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2004, 12, 31-33. | 1.3 | 207 |
| 15 | Long term evaluation of disease progression through the quantitative magnetic resonance imaging of symptomatic knee osteoarthritis patients: correlation with clinical symptoms and radiographic changes. <i>Arthritis Research and Therapy</i> , 2005, 8, R21. | 3.5 | 205 |
| 16 | Risk factors associated with the loss of cartilage volume on weight-bearing areas in knee osteoarthritis patients assessed by quantitative magnetic resonance imaging: a longitudinal study. <i>Arthritis Research and Therapy</i> , 2007, 9, R74. | 3.5 | 204 |
| 17 | A consensus statement on the European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ESCEO) algorithm for the management of knee osteoarthritis: From evidence-based medicine to the real-life setting. <i>Seminars in Arthritis and Rheumatism</i> , 2016, 45, S3-S11. | 3.4 | 203 |
| 18 | Peroxisome proliferator-activated receptor γ activators inhibit interleukin-1 γ -induced nitric oxide and matrix metalloproteinase 13 production in human chondrocytes. <i>Arthritis and Rheumatism</i> , 2001, 44, 595-607. | 6.7 | 196 |

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|----|---|-----|-----------|
| 19 | Combined chondroitin sulfate and glucosamine for painful knee osteoarthritis: a multicentre, randomised, double-blind, non-inferiority trial versus celecoxib. <i>Annals of the Rheumatic Diseases</i> , 2016, 75, 37-44. | 0.9 | 194 |
| 20 | Osteoblast-like cells from human subchondral osteoarthritic bone demonstrate an altered phenotype in vitro: Possible role in subchondral bone sclerosis. <i>Arthritis and Rheumatism</i> , 1998, 41, 891-899. | 6.7 | 189 |
| 21 | Human Osteoarthritic Chondrocytes Possess an Increased Number of Insulin-Like Growth Factor 1 Binding Sites but are Unresponsive to its Stimulation. <i>Arthritis and Rheumatism</i> , 1994, 37, 253-263. | 6.7 | 186 |
| 22 | Cytokines and their role in the pathophysiology of osteoarthritis. <i>Frontiers in Bioscience - Landmark</i> , 1999, 4, d694. | 3.0 | 186 |
| 23 | PPAR γ 3 deficiency results in severe, accelerated osteoarthritis associated with aberrant mTOR signalling in the articular cartilage. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 569-578. | 0.9 | 186 |
| 24 | PPAR γ ligands as modulators of inflammatory and catabolic responses in arthritis. An overview. <i>Journal of Rheumatology</i> , 2002, 29, 3-14. | 2.0 | 182 |
| 25 | The Induction of Cell Death in Human Osteoarthritis Chondrocytes by Nitric Oxide Is Related to the Production of Prostaglandin E2 Via the Induction of Cyclooxygenase-2. <i>Journal of Immunology</i> , 2000, 165, 3402-3410. | 0.8 | 171 |
| 26 | Chondroitin sulphate reduces both cartilage volume loss and bone marrow lesions in knee osteoarthritis patients starting as early as 6 months after initiation of therapy: a randomised, double-blind, placebo-controlled pilot study using MRI. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 982-989. | 0.9 | 164 |
| 27 | Collagenase-3 (matrix metalloprotease 13) is preferentially localized in the deep layer of human arthritic cartilage in situ. In vitro mimicking effect by transforming growth factor β 2. <i>Arthritis and Rheumatism</i> , 1997, 40, 1653-1661. | 6.7 | 163 |
| 28 | Efficacy and safety of topical NSAIDs in the management of osteoarthritis: Evidence from real-life setting trials and surveys. <i>Seminars in Arthritis and Rheumatism</i> , 2016, 45, S18-S21. | 3.4 | 157 |
| 29 | Neutral proteases capable of proteoglycan digesting activity in osteoarthritic and normal human articular cartilage. <i>Arthritis and Rheumatism</i> , 1984, 27, 305-312. | 6.7 | 156 |
| 30 | Synovial membrane histology and immunopathology in rheumatoid arthritis and osteoarthritis. In vivo effects of antirheumatic drugs. <i>Arthritis and Rheumatism</i> , 1991, 34, 153-163. | 6.7 | 156 |
| 31 | Collagenase and collagenolytic activity in human osteoarthritic cartilage. <i>Arthritis and Rheumatism</i> , 1983, 26, 63-68. | 6.7 | 152 |
| 32 | The interleukin-1 receptor in normal and osteoarthritic human articular chondrocytes. Identification as the type I receptor and analysis of binding kinetics and biologic function. <i>Arthritis and Rheumatism</i> , 1992, 35, 530-540. | 6.7 | 151 |
| 33 | Targeting subchondral bone for treating osteoarthritis: what is the evidence?. <i>Best Practice and Research in Clinical Rheumatology</i> , 2010, 24, 51-70. | 3.3 | 147 |
| 34 | The inhibition of subchondral bone resorption in the early phase of experimental dog osteoarthritis by licofelone is associated with a reduction in the synthesis of MMP-13 and cathepsin K. <i>Bone</i> , 2004, 34, 527-538. | 2.9 | 143 |
| 35 | Computer-aided method for quantification of cartilage thickness and volume changes using mri: validation study using a synthetic model. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 978-988. | 4.2 | 134 |
| 36 | Altered mineralization of human osteoarthritic osteoblasts is attributable to abnormal type I collagen production. <i>Arthritis and Rheumatism</i> , 2009, 60, 1438-1450. | 6.7 | 130 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Imbalance between the mechanisms of activation and inhibition of metalloproteases in the early lesions of experimental osteoarthritis. <i>Arthritis and Rheumatism</i> , 1990, 33, 1466-1476. | 6.7 | 126 |
| 38 | Interleukin-1 β -converting enzyme/caspase-1 in human osteoarthritic tissues: Localization and role in the maturation of interleukin-1 β and interleukin-18. <i>Arthritis and Rheumatism</i> , 1999, 42, 1577-1587. | 6.7 | 126 |
| 39 | Collagenolytic activity and collagen matrix breakdown of the articular cartilage in the pond-nuki dog model of osteoarthritis. <i>Arthritis and Rheumatism</i> , 1983, 26, 866-874. | 6.7 | 124 |
| 40 | Intraarticular Injections with Methylprednisolone Acetate Reduce Osteoarthritic Lesions in Parallel with Chondrocyte Stromelysin Synthesis in Experimental Osteoarthritis. <i>Arthritis and Rheumatism</i> , 1994, 37, 414-423. | 6.7 | 122 |
| 41 | Role of synovial membrane inflammation in cartilage matrix breakdown in the Pond-Nuki dog model of osteoarthritis. <i>Arthritis and Rheumatism</i> , 1985, 28, 554-561. | 6.7 | 120 |
| 42 | Machine-learning-based patient-specific prediction models for knee osteoarthritis. <i>Nature Reviews Rheumatology</i> , 2019, 15, 49-60. | 8.0 | 119 |
| 43 | Diacerein: Benefits, Risks and Place in the Management of Osteoarthritis. An Opinion-Based Report from the ESCEO. <i>Drugs and Aging</i> , 2016, 33, 75-85. | 2.7 | 116 |
| 44 | Meniscal tear as an osteoarthritis risk factor in a largely non-osteoarthritic cohort: a cross-sectional study. <i>Journal of Rheumatology</i> , 2007, 34, 776-84. | 2.0 | 115 |
| 45 | In vivo selective inhibition of mitogen-activated protein kinase kinase 1/2 in rabbit experimental osteoarthritis is associated with a reduction in the development of structural changes. <i>Arthritis and Rheumatism</i> , 2003, 48, 1582-1593. | 6.7 | 112 |
| 46 | Knee meniscal extrusion in a largely non-osteoarthritic cohort: association with greater loss of cartilage volume. <i>Arthritis Research and Therapy</i> , 2007, 9, R21. | 3.5 | 108 |
| 47 | Disease-modifying effect of strontium ranelate in a subset of patients from the Phase III knee osteoarthritis study SEKOIA using quantitative MRI: reduction in bone marrow lesions protects against cartilage loss. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 422-429. | 0.9 | 106 |
| 48 | Strontium ranelate inhibits key factors affecting bone remodeling in human osteoarthritic subchondral bone osteoblasts. <i>Bone</i> , 2011, 49, 559-567. | 2.9 | 103 |
| 49 | Meniscal extrusion predicts increases in subchondral bone marrow lesions and bone cysts and expansion of subchondral bone in osteoarthritic knees. <i>Rheumatology</i> , 2010, 49, 997-1004. | 1.9 | 101 |
| 50 | Efficacy and safety of oral NSAIDs and analgesics in the management of osteoarthritis: Evidence from real-life setting trials and surveys. <i>Seminars in Arthritis and Rheumatism</i> , 2016, 45, S22-S27. | 3.4 | 101 |
| 51 | In vivo dual inhibition of cyclooxygenase and lipoxygenase by ML-3000 reduces the progression of experimental osteoarthritis: Suppression of collagenase 1 and interleukin-1 β synthesis. <i>Arthritis and Rheumatism</i> , 2001, 44, 2320-2330. | 6.7 | 100 |
| 52 | Activation of Peroxisome Proliferator-activated Receptor γ Inhibits Interleukin-1 β -induced Membrane-associated Prostaglandin E2 Synthase-1 Expression in Human Synovial Fibroblasts by Interfering with Egr-1. <i>Journal of Biological Chemistry</i> , 2004, 279, 22057-22065. | 3.4 | 100 |
| 53 | Modulation of OPG, RANK and RANKL by human chondrocytes and their implication during osteoarthritis. <i>Rheumatology</i> , 2009, 48, 1482-1490. | 1.9 | 99 |
| 54 | Automatic Human Knee Cartilage Segmentation From 3-D Magnetic Resonance Images. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 2699-2711. | 4.2 | 98 |

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|----|--|-----|-----------|
| 55 | Bone marrow lesions predict site-specific cartilage defect development and volume loss: a prospective study in older adults. <i>Arthritis Research and Therapy</i> , 2010, 12, R222. | 3.5 | 96 |
| 56 | Risk factors predictive of joint replacement in a 2-year multicentre clinical trial in knee osteoarthritis using MRI: results from over 6 years of observation. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 1382-1388. | 0.9 | 93 |
| 57 | Future therapeutics for osteoarthritis. <i>Bone</i> , 2012, 51, 297-311. | 2.9 | 93 |
| 58 | Chondroitin and glucosamine sulfate in combination decrease the pro-resorptive properties of human osteoarthritis subchondral bone osteoblasts: a basic science study. <i>Arthritis Research and Therapy</i> , 2007, 9, R117. | 3.5 | 90 |
| 59 | New Perspective in Osteoarthritis: The OPG and RANKL System as a Potential Therapeutic Target?. <i>Keio Journal of Medicine</i> , 2009, 58, 29-40. | 1.1 | 90 |
| 60 | Degradation of small leucine-rich repeat proteoglycans by matrix metalloprotease-13: identification of a new biglycan cleavage site. <i>Arthritis Research and Therapy</i> , 2006, 8, R26. | 3.5 | 87 |
| 61 | Discrepancies in Composition and Biological Effects of Different Formulations of Chondroitin Sulfate. <i>Molecules</i> , 2015, 20, 4277-4289. | 3.8 | 84 |
| 62 | Differential gene expression and regulation of the bone morphogenetic protein antagonists follistatin and gremlin in normal and osteoarthritic human chondrocytes and synovial fibroblasts. <i>Arthritis and Rheumatism</i> , 2004, 50, 2521-2530. | 6.7 | 83 |
| 63 | Collagenase 3 production by human osteoarthritic chondrocytes in response to growth factors and cytokines is a function of the physiologic state of the cells. <i>Arthritis and Rheumatism</i> , 1999, 42, 1147-1158. | 6.7 | 82 |
| 64 | Transcriptional induction of cyclooxygenase-2 gene by okadaic acid inhibition of phosphatase activity in human chondrocytes: Co-stimulation of AP-1 and CRE nuclear binding proteins. <i>Journal of Cellular Biochemistry</i> , 1998, 69, 392-413. | 2.6 | 81 |
| 65 | First-line analysis of the effects of treatment on progression of structural changes in knee osteoarthritis over 24 months: data from the osteoarthritis initiative progression cohort. <i>Annals of the Rheumatic Diseases</i> , 2015, 74, 547-556. | 0.9 | 81 |
| 66 | Effects of diacerein at the molecular level in the osteoarthritis disease process. <i>Therapeutic Advances in Musculoskeletal Disease</i> , 2010, 2, 95-104. | 2.7 | 79 |
| 67 | Interleukin 17 (IL-17) induces collagenase-3 production in human osteoarthritic chondrocytes via AP-1 dependent activation: differential activation of AP-1 members by IL-17 and IL-1beta. <i>Journal of Rheumatology</i> , 2002, 29, 1262-72. | 2.0 | 79 |
| 68 | Expression and regulation of microsomal prostaglandin E synthase-1 in human osteoarthritic cartilage and chondrocytes. <i>Journal of Rheumatology</i> , 2005, 32, 887-95. | 2.0 | 79 |
| 69 | Normal expression of type 1 insulin-like growth factor receptor by human osteoarthritic chondrocytes with increased expression and synthesis of insulin-like growth factor binding proteins. <i>Arthritis and Rheumatism</i> , 1996, 39, 968-978. | 6.7 | 78 |
| 70 | Glucocorticoid Receptor Mediated Inhibition of Interleukin-1 Stimulated Neutral Metalloprotease Synthesis in Normal Human Chondrocytes*. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1991, 72, 316-326. | 3.6 | 77 |
| 71 | Strontium ranelate reduces the progression of experimental dog osteoarthritis by inhibiting the expression of key proteases in cartilage and of IL-1 β in the synovium. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 250-257. | 0.9 | 68 |
| 72 | Study of the role of leukotriene B4 in abnormal function of human subchondral osteoarthritis osteoblasts: Effects of cyclooxygenase and/or 5-lipoxygenase inhibition. <i>Arthritis and Rheumatism</i> , 2002, 46, 1804-1812. | 6.7 | 64 |

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|----|---|-----|-----------|
| 73 | The in situ up-regulation of chondrocyte interleukin-1-converting enzyme and interleukin-18 levels in experimental osteoarthritis is mediated by nitric oxide. <i>Arthritis and Rheumatism</i> , 2002, 46, 2637-2647. | 6.7 | 64 |
| 74 | Human Adult Chondrocytes Express Hepatocyte Growth Factor (HGF) Isoforms but Not HGF: Potential Implication of Osteoblasts on the Presence of HGF in Cartilage. <i>Journal of Bone and Mineral Research</i> , 2003, 18, 1073-1081. | 2.8 | 64 |
| 75 | IGF and IGF-binding protein system in the synovial fluid of osteoarthritic and rheumatoid arthritic patients. <i>Osteoarthritis and Cartilage</i> , 1996, 4, 263-274. | 1.3 | 63 |
| 76 | Cloning, sequencing and characterization of the 5' flanking region of the human collagenase-3 gene. <i>Biochemical Journal</i> , 1997, 323, 13-16. | 3.7 | 63 |
| 77 | Adult Cartilage-Specific Peroxisome Proliferator-Activated Receptor Gamma Knockout Mice Exhibit the Spontaneous Osteoarthritis Phenotype. <i>American Journal of Pathology</i> , 2013, 182, 1099-1106. | 3.8 | 63 |
| 78 | NFAT3 and TGF- β /SMAD3 regulate the expression of miR-140 in osteoarthritis. <i>Arthritis Research and Therapy</i> , 2013, 15, R197. | 3.5 | 62 |
| 79 | Activation of proteinase-activated receptor 2 in human osteoarthritic cartilage upregulates catabolic and proinflammatory pathways capable of inducing cartilage degradation: a basic science study. <i>Arthritis Research and Therapy</i> , 2007, 9, R121. | 3.5 | 61 |
| 80 | Endogenous Prostaglandin E2 and Insulin-like Growth Factor 1 Can Modulate the Levels of Parathyroid Hormone Receptor in Human Osteoarthritic Osteoblasts. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 713-721. | 2.8 | 59 |
| 81 | Ten years in the life of an enzyme: the story of the human MMP-13 (collagenase-3). <i>Modern Rheumatology</i> , 2004, 14, 197-204. | 1.8 | 59 |
| 82 | Oral treatment with PD-0200347, an α 2 ligand, reduces the development of experimental osteoarthritis by inhibiting metalloproteinases and inducible nitric oxide synthase gene expression and synthesis in cartilage chondrocytes. <i>Arthritis and Rheumatism</i> , 2005, 52, 488-500. | 6.7 | 59 |
| 83 | Effect of Intravenous Zoledronic Acid on Tibiofemoral Cartilage Volume Among Patients With Knee Osteoarthritis With Bone Marrow Lesions. <i>JAMA - Journal of the American Medical Association</i> , 2020, 323, 1456. | 7.4 | 59 |
| 84 | Effects of tenidap on canine experimental osteoarthritis i. morphologic and metalloprotease analysis. <i>Arthritis and Rheumatism</i> , 1995, 38, 1290-1303. | 6.7 | 58 |
| 85 | Abnormal regulation of urokinase plasminogen activator by insulin-like growth factor 1 in human osteoarthritic subchondral osteoblasts. <i>Arthritis and Rheumatism</i> , 1999, 42, 2112-2122. | 6.7 | 58 |
| 86 | Relationship between bone marrow lesions, cartilage loss and pain in knee osteoarthritis: results from a randomised controlled clinical trial using MRI. <i>Annals of the Rheumatic Diseases</i> , 2010, 69, 2118-2124. | 0.9 | 58 |
| 87 | Ntp pyrophosphohydrolase in human chondrocalcinotic and osteoarthritic cartilage: Further Studies on Histologic and Subcellular Distribution. <i>Arthritis and Rheumatism</i> , 1984, 27, 193-199. | 6.7 | 56 |
| 88 | Regulation of the expression of 5-lipoxygenase-activating protein/5-lipoxygenase and the synthesis of leukotriene B4 in osteoarthritic chondrocytes: Role of transforming growth factor β and eicosanoids. <i>Arthritis and Rheumatism</i> , 2004, 50, 3925-3933. | 6.7 | 56 |
| 89 | The protective effect of licofelone on experimental osteoarthritis is correlated with the downregulation of gene expression and protein synthesis of several major cartilage catabolic factors: MMP-13, cathepsin K and aggrecanases. <i>Arthritis Research and Therapy</i> , 2005, 7, R1091. | 3.5 | 56 |
| 90 | Modulation of insulin-like growth factor 1 levels in human osteoarthritic subchondral bone osteoblasts. <i>Bone</i> , 2006, 38, 333-341. | 2.9 | 56 |

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|-----|---|-----|-----------|
| 91 | Differential modulation of RANKL isoforms by human osteoarthritic subchondral bone osteoblasts: Influence of osteotropic factors. <i>Bone</i> , 2008, 43, 284-291. | 2.9 | 55 |
| 92 | Inhibition of interleukin-1 α -induced matrix metalloproteinases 1 and 13 production in human osteoarthritic chondrocytes by prostaglandin D ₂ . <i>Arthritis and Rheumatism</i> , 2008, 58, 3530-3540. | 6.7 | 53 |
| 93 | Association of cartilage-specific deletion of peroxisome proliferator-activated receptor β with abnormal endochondral ossification and impaired cartilage growth and development in a murine model. <i>Arthritis and Rheumatism</i> , 2012, 64, 1551-1561. | 6.7 | 53 |
| 94 | Synthesis of interleukin 1beta, tumor necrosis factor-alpha, and interstitial collagenase (MMP-1) is eicosanoid dependent in human osteoarthritis synovial membrane explants: interactions with antiinflammatory cytokines. <i>Journal of Rheumatology</i> , 2002, 29, 546-53. | 2.0 | 52 |
| 95 | Cartilage degradation by neutral proteoglycanases in experimental osteoarthritis. Suppression by steroids. <i>Arthritis and Rheumatism</i> , 1985, 28, 1393-1401. | 6.7 | 51 |
| 96 | Activation of the receptor EphB4 by its specific ligand ephrin B2 in human osteoarthritic subchondral bone osteoblasts. <i>Arthritis and Rheumatism</i> , 2008, 58, 3820-3830. | 6.7 | 51 |
| 97 | The levels of the adipokines adipon and leptin are associated with knee osteoarthritis progression as assessed by MRI and incidence of total knee replacement in symptomatic osteoarthritis patients: a <i>post hoc</i> analysis. <i>Rheumatology</i> , 2016, 55, 680-688. | 1.9 | 51 |
| 98 | The presence of meniscal lesions is a strong predictor of neuropathic pain in symptomatic knee osteoarthritis: a cross-sectional pilot study. <i>Arthritis Research and Therapy</i> , 2014, 16, 507. | 3.5 | 50 |
| 99 | A fully automated human knee 3D MRI bone segmentation using the ray casting technique. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 1413-1424. | 2.8 | 49 |
| 100 | Subchondral bone morphological and biochemical alterations in osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 1999, 7, 321-322. | 1.3 | 48 |
| 101 | Variable Effects of 3 Different Chondroitin Sulfate Compounds on Human Osteoarthritic Cartilage/Chondrocytes: Relevance of Purity and Production Process. <i>Journal of Rheumatology</i> , 2010, 37, 656-664. | 2.0 | 47 |
| 102 | Hepatocyte growth factor induction of collagenase 3 production in human osteoarthritic cartilage: Involvement of the stress-activated protein kinase/c-Jun N-terminal kinase pathway and a sensitive p38 mitogen-activated protein kinase inhibitor cascade. <i>Arthritis and Rheumatism</i> , 2001, 44, 73-84. | 6.7 | 46 |
| 103 | Human Hip Joint Cartilage: MRI Quantitative Thickness and Volume Measurements Discriminating Acetabulum and Femoral Head. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 2731-2740. | 4.2 | 46 |
| 104 | Endothelin 1 promotes osteoarthritic cartilage degradation via matrix metalloprotease 1 and matrix metalloprotease 13 induction. <i>Arthritis and Rheumatism</i> , 2003, 48, 2855-2864. | 6.7 | 45 |
| 105 | Ten years in the life of an enzyme: the story of the human MMP-13 (collagenase-3). <i>Modern Rheumatology</i> , 2004, 14, 197-204. | 1.8 | 45 |
| 106 | Regulation of human normal and osteoarthritic chondrocyte interleukin-1 receptor by antirheumatic drugs. <i>Arthritis and Rheumatism</i> , 1993, 36, 1517-1527. | 6.7 | 42 |
| 107 | Abnormal insulin-like growth factor 1 signaling in human osteoarthritic subchondral bone osteoblasts. <i>Arthritis Research and Therapy</i> , 2006, 8, R177. | 3.5 | 42 |
| 108 | Expression of c-fos, c-jun, jun-B, metallothionein and metalloproteinase genes in human chondrocyte. <i>FEBS Letters</i> , 1992, 306, 169-172. | 2.8 | 39 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Ntp pyrophosphohydrolase in human chondrocalcinotic and osteoarthritic cartilage: some biochemical characteristic. <i>Arthritis and Rheumatism</i> , 1984, 27, 186-192. | 6.7 | 38 |
| 110 | Extracellular localization of galectin-3 has a deleterious role in joint tissues. <i>Arthritis Research and Therapy</i> , 2007, 9, R20. | 3.5 | 38 |
| 111 | The unfolded protein response genes in human osteoarthritic chondrocytes: PERK emerges as a potential therapeutic target. <i>Arthritis Research and Therapy</i> , 2016, 18, 172. | 3.5 | 38 |
| 112 | Chondroitin sulfate efficacy versus celecoxib on knee osteoarthritis structural changes using magnetic resonance imaging: a 2-year multicentre exploratory study. <i>Arthritis Research and Therapy</i> , 2016, 18, 256. | 3.5 | 38 |
| 113 | Knee pain as a predictor of structural progression over 4 years: data from the Osteoarthritis Initiative, a prospective cohort study. <i>Arthritis Research and Therapy</i> , 2018, 20, 250. | 3.5 | 36 |
| 114 | The shunt from the cyclooxygenase to lipoxygenase pathway in human osteoarthritic subchondral osteoblasts is linked with a variable expression of the 5-lipoxygenase-activating protein. <i>Arthritis Research and Therapy</i> , 2006, 8, R181. | 3.5 | 35 |
| 115 | Fully automated system for the quantification of human osteoarthritic knee joint effusion volume using magnetic resonance imaging. <i>Arthritis Research and Therapy</i> , 2010, 12, R173. | 3.5 | 35 |
| 116 | Analgesic efficacy of tramadol in cats with naturally occurring osteoarthritis. <i>PLoS ONE</i> , 2017, 12, e0175565. | 2.5 | 35 |
| 117 | New thoughts on the pathophysiology of osteoarthritis: One more step toward new therapeutic targets. <i>Current Rheumatology Reports</i> , 2006, 8, 30-36. | 4.7 | 34 |
| 118 | Proteinase-activated receptor (PAR)-2 activation impacts bone resorptive properties of human osteoarthritic subchondral bone osteoblasts. <i>Bone</i> , 2009, 44, 1143-1150. | 2.9 | 34 |
| 119 | Analgesic efficacy of an oral transmucosal spray formulation of meloxicam alone or in combination with tramadol in cats with naturally occurring osteoarthritis. <i>Veterinary Anaesthesia and Analgesia</i> , 2016, 43, 643-651. | 0.6 | 34 |
| 120 | Activation of The Phosphatidylcholine to Lysophosphatidylcholine Pathway Is Associated with Osteoarthritis Knee Cartilage Volume Loss Over Time. <i>Scientific Reports</i> , 2019, 9, 9648. | 3.3 | 34 |
| 121 | Is osteoarthritis a disease involving only cartilage or other articular tissues?. <i>Eklemleri Hastalıkları Ve Cerrahisi = Joint Diseases & Related Surgery</i> , 2010, 21, 2-14. | 2.5 | 34 |
| 122 | Increased insulin-like growth factor 1 production by human osteoarthritic chondrocytes is not dependent on growth hormone action. <i>Arthritis and Rheumatism</i> , 1995, 38, 413-419. | 6.7 | 33 |
| 123 | Treatment with ephrin B2 positively impacts the abnormal metabolism of human osteoarthritic chondrocytes. <i>Arthritis Research and Therapy</i> , 2009, 11, R119. | 3.5 | 32 |
| 124 | In vivo bone-specific EphB4 overexpression in mice protects both subchondral bone and cartilage during osteoarthritis. <i>Arthritis and Rheumatism</i> , 2012, 64, 3614-3625. | 6.7 | 31 |
| 125 | Can We Identify Patients with High Risk of Osteoarthritis Progression Who Will Respond to Treatment? A Focus on Biomarkers and Frailty. <i>Drugs and Aging</i> , 2015, 32, 525-535. | 2.7 | 31 |
| 126 | A new decision tree for diagnosis of osteoarthritis in primary care: international consensus of experts. <i>Aging Clinical and Experimental Research</i> , 2019, 31, 19-30. | 2.9 | 31 |

| # | ARTICLE | IF | CITATIONS |
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