# Jean-Pierre Pelletier

List of Publications by Year
in descending order



| 243 | 20,262 | 8181 | 11607 |
|---|---|---|---|
| papers | citations | 76 h-index | 135 g-index |

| 245 | 245 | 245 | 14006 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Role of proinflammatory cytokines in the pathophysiology of osteoarthritis. Nature Reviews Rheumatology, 2011, 7, 33-42. | 8.0 | 1,973 |
| 2 | Osteoarthritis. Nature Reviews Disease Primers, 2016, 2, 16072. | 30.5 | 1,011 |
| 3 | Osteoarthritis, an inflammatory disease: Potential implication for the selection of new therapeutic targets. Arthritis and Rheumatism, 2001, 44, 1237-1247. | 6.7 | 953 |
| 4 | Safety and efficacy of longâ€term intraarticular steroid injections in osteoarthritis of the knee: A randomized, doubleâ€blind, placeboâ€controlled trial. Arthritis and Rheumatism, 2003, 48, 370-377. | 6.7 | 452 |
| 5 | Cartilage in normal and osteoarthritis conditions. Best Practice and Research in Clinical Rheumatology, 2008, 22, 351-384. | 3.3 | 424 |
| 6 | 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). Seminars in Arthritis and Rheumatism, 2014, 44, 253-263. | 3.4 | 414 |
| 7 | 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). Seminars in Arthritis and Rheumatism, 2019, 49, 337-350. | 3.4 | 392 |
| 8 | In vivo suppression of early experimental osteoarthritis by interleukin-1 receptor antagonist using gene therapy. Arthritis and Rheumatism, 1997, 40, 1012-1019. | 6.7 | 353 |
| 9 | Chondroprotective effect of intraarticular injections of interleukin-1 receptor antagonist in experimental osteoarthritis. Suppression of collagenase-1 expression. Arthritis and Rheumatism, 1996, 39, 1535-1544. | 6.7 | 338 |
| 10 | Risedronate decreases biochemical markers of cartilage degradation but does not decrease symptoms or slow radiographic progression in patients with medial compartment osteoarthritis of the knee: Results of the twoâ€year multinational knee osteoarthritis structural arthritis study. Arthritis and Rheumatism, 2006, 54, 3494-3507. | 6.7 | 338 |
| 11 | Cartilage-specific deletion of mTOR upregulates autophagy and protects mice from osteoarthritis. Annals of the Rheumatic Diseases, 2015, 74, 1432-1440. | 0.9 | 322 |
| 12 | Reduced progression of experimental osteoarthritis in vivo by selective inhibition of inducible nitric oxide synthase. Arthritis and Rheumatism, 1998, 41, 1275-1286. | 6.7 | 318 |
| 13 | Health economics in the field of osteoarthritis: An Expert's consensus paper from the European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ESCEO). Seminars in Arthritis and Rheumatism, 2013, 43, 303-313. | 3.4 | 239 |
| 14 | Quantitative magnetic resonance imaging evaluation of knee osteoarthritis progression over two years and correlation with clinical symptoms and radiologic changes. Arthritis and Rheumatism, 2004, 50, 476-487. | 6.7 | 235 |
| 15 | Metalloproteases and inhibitors in arthritic diseases. Best Practice and Research in Clinical Rheumatology, 2001, 15, 805-829. | 3.3 | 233 |
| 16 | In Vivo Transfer of Interleukin-1 Receptor Antagonist Gene in Osteoarthritic Rabbit Knee Joints. American Journal of Pathology, 1999, 154, 1159-1169. | 3.8 | 218 |
| 17 | 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. Arthritis and Rheumatism, 2000, 43, 1290-1299. | 6.7 | 217 |
| 18 | Long term evaluation of disease progression through the quantitative magnetic resonance imaging of symptomatic knee osteoarthritis patients: correlation with clinical symptoms and radiographic changes. Arthritis Research and Therapy, 2005, 8, R21. | 3.5 | 205 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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. Arthritis Research and Therapy, 2007, 9, R74. | 3.5 | 204 |
| 20 | A consensus statement on the European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis (ESCEO) algorithm for the management of knee osteoarthritisâ€"From evidence-based medicine to the real-life setting. Seminars in Arthritis and Rheumatism, 2016, 45, S3-S11. | 3.4 | 203 |
| 21 | Peroxisome proliferator-activated receptor ? activators inhibit interleukin-1?-induced nitric oxide and matrix metalloproteinase 13 production in human chondrocytes. Arthritis and Rheumatism, 2001, 44, 595-607. | 6.7 | 196 |
| 22 | Combined chondroitin sulfate and glucosamine for painful knee osteoarthritis: a multicentre, randomised, double-blind, non-inferiority trial versus celecoxib. Annals of the Rheumatic Diseases, 2016, 75, 37-44. | 0.9 | 194 |
| 23 | Osteoblast-like cells from human subchondral osteoarthritic bone demonstrate an altered phenotype in vitro: Possible role in subchondral bone sclerosis. Arthritis and Rheumatism, 1998, 41, 891-899. | 6.7 | 189 |
| 24 | Human Osteoarthritic Chondrocytes Possess an Increased Number of Insulin-Like Growth Factor 1 Binding Sites but are Unresponsive to its Stimulation. Arthritis and Rheumatism, 1994, 37, 253-263. | 6.7 | 186 |
| 25 | PPARÎ³ deficiency results in severe, accelerated osteoarthritis associated with aberrant mTOR signalling in the articular cartilage. Annals of the Rheumatic Diseases, 2015, 74, 569-578. | 0.9 | 186 |
| 26 | PPARgamma ligands as modulators of inflammatory and catabolic responses in arthritis. An overview. Journal of Rheumatology, 2002, 29, 3-14. | 2.0 | 182 |
| 27 | Bone marrow lesions in people with knee osteoarthritis predict progression of disease and joint replacement: a longitudinal study. Rheumatology, 2010, 49, 2413-2419. | 1.9 | 178 |
| 28 | 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. Journal of Immunology, 2000, 165, 3402-3410. | 0.8 | 171 |
| 29 | 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. Annals of the Rheumatic Diseases, 2011, 70, 982-989. | 0.9 | 164 |
| 30 | 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 Î². Arthritis and Rheumatism, 1997, 40, 1653-1661. | 6.7 | 163 |
| 31 | Efficacy and safety of topical NSAIDs in the management of osteoarthritis: Evidence from real-life setting trials and surveys. Seminars in Arthritis and Rheumatism, 2016, 45, S18-S21. | 3.4 | 157 |
| 32 | Neutral proteases capable of proteoglycan digesting activity in osteoarthritic and normal human articular cartilage. Arthritis and Rheumatism, 1984, 27, 305-312. | 6.7 | 156 |
| 33 | Protective effects of corticosteroids on cartilage lesions and osteophyte formation in the pond-nuki dog model of osteoarthritis. Arthritis and Rheumatism, 1989, 32, 181-193. | 6.7 | 156 |
| 34 | Synovial membrane histology and immunopathology in rheumatoid arthritis and osteoarthritis. In vivo effects of antirheumatic drugs. Arthritis and Rheumatism, 1991, 34, 153-163. | 6.7 | 156 |
| 35 | The increased synthesis of inducible nitric oxide inhibits IL-1ra synthesis by human articular chondrocytes: possible role in osteoarthritic cartilage degradation. Osteoarthritis and Cartilage, 1996, 4, 77-84. | 1.3 | 155 |
| 36 | Collagenase and collagenolytic activity in human osteoarthritic cartilage. Arthritis and Rheumatism, 1983, 26, 63-68. | 6.7 | 152 |

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|---|---|---|---|
| 37 | Mitogen-activated protein kinase and nuclear factor ?B together regulate interleukin-17-induced nitric oxide production in human osteoarthritic chondrocytes: Possible role of transactivating factor mitogen-activated protein kinase-activated protein kinase (MAPKAPK). Arthritis and Rheumatism, 1999, 42, 2399-2409. | 6.7 | 152 |
| 38 | 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. Arthritis and Rheumatism, 1992, 35, 530-540. | 6.7 | 151 |
| 39 | Efficacy and safety of diacerein in osteoarthritis of the knee: A double-blind, placebo-controlled trial. Arthritis and Rheumatism, 2000, 43, 2339-2348. | 6.7 | 147 |
| 40 | Targeting subchondral bone for treating osteoarthritis: what is the evidence?. Best Practice and Research in Clinical Rheumatology, 2010, 24, 51-70. | 3.3 | 147 |
| 41 | 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. Bone, 2004, 34, 527-538. | 2.9 | 143 |
| 42 | Computer-aided method for quantification of cartilage thickness and volume changes using mri: validation study using a synthetic model. IEEE Transactions on Biomedical Engineering, 2003, 50, 978-988. | 4.2 | 134 |
| 43 | Altered mineralization of human osteoarthritic osteoblasts is attributable to abnormal type I collagen production. Arthritis and Rheumatism, 2009, 60, 1438-1450. | 6.7 | 130 |
| 44 | Imbalance between the mechanisms of activation and inhibition of metalloproteases in the early lesions of experimental osteoarthritis. Arthritis and Rheumatism, 1990, 33, 1466-1476. | 6.7 | 126 |
| 45 | Interleukin-1?-converting enzyme/caspase-1 in human osteoarthritic tissues: Localization and role in the maturation of interleukin-1? and interleukin-18. Arthritis and Rheumatism, 1999, 42, 1577-1587. | 6.7 | 126 |
| 46 | Collagenolytic activity and collagen matrix breakdown of the articular cartilage in the pond-nuki dog model of osteoarthritis. Arthritis and Rheumatism, 1983, 26, 866-874. | 6.7 | 124 |
| 47 | Intraarticular Injections with Methylprednisolone Acetate Reduce Osteoarthritic Lesions in Parallel with Chondrocyte Stromelysin Synthesis in Experimental Osteoarthritis. Arthritis and Rheumatism, 1994, 37, 414-423. | 6.7 | 122 |
| 48 | Role of synovial membrane inflammation in cartilage matrix breakdown in the Pond-Nuki dog model of osteoarthritis. Arthritis and Rheumatism, 1985, 28, 554-561. | 6.7 | 120 |
| 49 | Machine-learning-based patient-specific prediction models for knee osteoarthritis. Nature Reviews Rheumatology, 2019, 15, 49-60. | 8.0 | 119 |
| 50 | Exercise protects against articular cartilage degeneration in the hamster. Arthritis and Rheumatism, 1998, 41, 2068-2076. | 6.7 | 118 |
| 51 | Diacerein: Benefits, Risks and Place in the Management of Osteoarthritis. An Opinion-Based Report from the ESCEO. Drugs and Aging, 2016, 33, 75-85. | 2.7 | 116 |
| 52 | Meniscal tear as an osteoarthritis risk factor in a largely non-osteoarthritic cohort: a cross-sectional study. Journal of Rheumatology, 2007, 34, 776-84. | 2.0 | 115 |
| 53 | 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. Arthritis and Rheumatism, 2003, 48, 1582-1593. | 6.7 | 112 |
| 54 | 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. Annals of the Rheumatic Diseases, 2015, 74, 422-429. | 0.9 | 106 |

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| 55 | Pioglitazone, a peroxisome proliferator-activated receptor ? agonist, reduces the progression of experimental osteoarthritis in guinea pigs. Arthritis and Rheumatism, 2005, 52, 479-487. | 6.7 | 104 |
| 56 | Strontium ranelate inhibits key factors affecting bone remodeling in human osteoarthritic subchondral bone osteoblasts. Bone, 2011, 49, 559-567. | 2.9 | 103 |
| 57 | Meniscal extrusion predicts increases in subchondral bone marrow lesions and bone cysts and expansion of subchondral bone in osteoarthritic knees. Rheumatology, 2010, 49, 997-1004. | 1.9 | 101 |
| 58 | Efficacy and safety of oral NSAIDs and analgesics in the management of osteoarthritis: Evidence from real-life setting trials and surveys. Seminars in Arthritis and Rheumatism, 2016, 45, S22-S27. | 3.4 | 101 |
| 59 | In vivo dual inhibition of cyclooxygenase and lipoxygenase by ML-3000 reduces the progression of experimental osteoarthritis: Suppression of collagenase 1 and interleukin-1? synthesis. Arthritis and Rheumatism, 2001, 44, 2320-2330. | 6.7 | 100 |
| 60 | Activation of Peroxisome Proliferator-activated Receptor Î³ Inhibits Interleukin-1Î²-induced Membrane-associated Prostaglandin E2 Synthase-1 Expression in Human Synovial Fibroblasts by Interfering with Egr-1. Journal of Biological Chemistry, 2004, 279, 22057-22065. | 3.4 | 100 |
| 61 | Modulation of OPG, RANK and RANKL by human chondrocytes and their implication during osteoarthritis. Rheumatology, 2009, 48, 1482-1490. | 1.9 | 99 |
| 62 | Automatic Human Knee Cartilage Segmentation From 3-D Magnetic Resonance Images. IEEE Transactions on Biomedical Engineering, 2010, 57, 2699-2711. | 4.2 | 98 |
| 63 | Bone marrow lesions predict site-specific cartilage defect development and volume loss: a prospective study in older adults. Arthritis Research and Therapy, 2010, 12, R222. | 3.5 | 96 |
| 64 | 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. Annals of the Rheumatic Diseases, 2011, 70, 1382-1388. | 0.9 | 93 |
| 65 | Future therapeutics for osteoarthritis. Bone, 2012, 51, 297-311. | 2.9 | 93 |
| 66 | Chondroitin and glucosamine sulfate in combination decrease the pro-resorptive properties of human osteoarthritis subchondral bone osteoblasts: a basic science study. Arthritis Research and Therapy, 2007, 9, R117. | 3.5 | 90 |
| 67 | New Perspective in Osteoarthritis: The OPG and RANKL System as a Potential Therapeutic Target?. Keio Journal of Medicine, 2009, 58, 29-40. | 1.1 | 90 |
| 68 | Tiludronate treatment improves structural changes and symptoms of osteoarthritis in the canine anterior cruciate ligament model. Arthritis Research and Therapy, 2011, 13, R98. | 3.5 | 86 |
| 69 | Protective effects of total fraction of avocado/soybean unsaponifiables on the structural changes in experimental dog osteoarthritis: inhibition of nitric oxide synthase and matrix metalloproteinase-13. Arthritis Research and Therapy, 2009, 11, R41. | 3.5 | 84 |
| 70 | Discrepancies in Composition and Biological Effects of Different Formulations of Chondroitin Sulfate. Molecules, 2015, 20, 4277-4289. | 3.8 | 84 |
| 71 | Differential gene expression and regulation of the bone morphogenetic protein antagonists follistatin and gremlin in normal and osteoarthritic human chondrocytes and synovial fibroblasts. Arthritis and Rheumatism, 2004, 50, 2521-2530. | 6.7 | 83 |
| 72 | Collagenase 3 production by human osteoarthritic chondrocytes in response to growth factors and cytokines is a function of the physiologic state of the cells. Arthritis and Rheumatism, 1999, 42, 1147-1158. | 6.7 | 82 |

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| 73 | 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. Journal of Cellular Biochemistry, 1998, 69, 392-413. | 2.6 | 81 |
| 74 | First-line analysis of the effects of treatment on progression of structural changes in knee osteoarthritis over 24â€…months: data from the osteoarthritis initiative progression cohort. Annals of the Rheumatic Diseases, 2015, 74, 547-556. | 0.9 | 81 |
| 75 | Effects of diacerein at the molecular level in the osteoarthritis disease process. Therapeutic Advances in Musculoskeletal Disease, 2010, 2, 95-104. | 2.7 | 79 |
| 76 | 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. Arthritis and Rheumatism, 1996, 39, 968-978. | 6.7 | 78 |
| 77 | Glucocorticoid Receptor Mediated Inhibition of Interleukin-1 Stimulated Neutral Metalloprotease Synthesis in Normal Human Chondrocytes*. Journal of Clinical Endocrinology and Metabolism, 1991, 72, 316-326. | 3.6 | 77 |
| 78 | The peroxisome proliferatorâ€“activated receptor Î³ agonist pioglitazone reduces the development of cartilage lesions in an experimental dog model of osteoarthritis: In vivo protective effects mediated through the inhibition of key signaling and catabolic pathways. Arthritis and Rheumatism, 2007, 56, 2288-2298. | 6.7 | 68 |
| 79 | Strontium ranelate reduces the progression of experimental dog osteoarthritis by inhibiting the expression of key proteases in cartilage and of IL-1Î² in the synovium. Annals of the Rheumatic Diseases, 2013, 72, 250-257. | 0.9 | 68 |
| 80 | Study of the role of leukotriene B4 in abnormal function of human subchondral osteoarthritis osteoblasts: Effects of cyclooxygenase and/or 5-lipoxygenase inhibition. Arthritis and Rheumatism, 2002, 46, 1804-1812. | 6.7 | 64 |
| 81 | The in situ up-regulation of chondrocyte interleukin-1-converting enzyme and interleukin-18 levels in experimental osteoarthritis is mediated by nitric oxide. Arthritis and Rheumatism, 2002, 46, 2637-2647. | 6.7 | 64 |
| 82 | IGF and IGF-binding protein system in the synovial fluid of osteoarthritic and rheumatoid arthritic patients. Osteoarthritis and Cartilage, 1996, 4, 263-274. | 1.3 | 63 |
| 83 | Cloning, sequencing and characterization of the 5â€²-flanking region of the human collagenase-3 gene. Biochemical Journal, 1997, 323, 13-16. | 3.7 | 63 |
| 84 | Adult Cartilage-Specific Peroxisome Proliferatorâ€“Activated Receptor Gamma Knockout Mice Exhibit the Spontaneous Osteoarthritis Phenotype. American Journal of Pathology, 2013, 182, 1099-1106. | 3.8 | 63 |
| 85 | Activation of proteinase-activated receptor 2 in human osteoarthritic cartilage upregulates catabolic and proinflammatory pathways capable of inducing cartilage degradation: a basic science study. Arthritis Research and Therapy, 2007, 9, R121. | 3.5 | 61 |
| 86 | Endogenous Prostaglandin E2 and Insulin-like Growth Factor 1 Can Modulate the Levels of Parathyroid Hormone Receptor in Human Osteoarthritic Osteoblasts. Journal of Bone and Mineral Research, 2001, 16, 713-721. | 2.8 | 59 |
| 87 | Oral treatment with PD-0200347, an ?2? ligand, reduces the development of experimental osteoarthritis by inhibiting metalloproteinases and inducible nitric oxide synthase gene expression and synthesis in cartilage chondrocytes. Arthritis and Rheumatism, 2005, 52, 488-500. | 6.7 | 59 |
| 88 | Intra-articular hyaluronic acid in the treatment of knee osteoarthritis: a Canadian evidence-based perspective. Therapeutic Advances in Musculoskeletal Disease, 2017, 9, 231-246. | 2.7 | 59 |
| 89 | Effect of Intravenous Zoledronic Acid on Tibiofemoral Cartilage Volume Among Patients With Knee Osteoarthritis With Bone Marrow Lesions. JAMA - Journal of the American Medical Association, 2020, 323, 1456. | 7.4 | 59 |
| 90 | Effects of tenidap on canine experimental osteoarthritis i. morphologic and metalloprotease analysis. Arthritis and Rheumatism, 1995, 38, 1290-1303. | 6.7 | 58 |

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|---|---|---|---|
| 91 | Abnormal regulation of urokinase plasminogen activator by insulin-like growth factor 1 in human osteoarthritic subchondral osteoblasts. Arthritis and Rheumatism, 1999, 42, 2112-2122. | 6.7 | 58 |
| 92 | Relationship between bone marrow lesions, cartilage loss and pain in knee osteoarthritis: results from a randomised controlled clinical trial using MRI. Annals of the Rheumatic Diseases, 2010, 69, 2118-2124. | 0.9 | 58 |
| 93 | Peroxisome proliferator-activated receptor gamma in osteoarthritis. Modern Rheumatology, 2011, 21, 1-9. | 1.8 | 57 |
| 94 | Ntp pyrophosphohydrolase in human chondrocalcinotic and osteoarthritic cartilage: Further Studies on Histologic and Subcellular Distribution. Arthritis and Rheumatism, 1984, 27, 193-199. | 6.7 | 56 |
| 95 | 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 ? and eicosanoids. Arthritis and Rheumatism, 2004, 50, 3925-3933. | 6.7 | 56 |
| 96 | 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. Arthritis Research and Therapy, 2005, 7, R1091. | 3.5 | 56 |
| 97 | Modulation of insulin-like growth factor 1 levels in human osteoarthritic subchondral bone osteoblasts. Bone, 2006, 38, 333-341. | 2.9 | 56 |
| 98 | Most recent developments in strategies to reduce the progression of structural changes in osteoarthritis: today and tomorrow. Arthritis Research and Therapy, 2006, 8, 206. | 3.5 | 55 |
| 99 | Differential modulation of RANKL isoforms by human osteoarthritic subchondral bone osteoblasts: Influence of osteotropic factors. Bone, 2008, 43, 284-291. | 2.9 | 55 |
| 100 | Inhibition of interleukinâ€1Î²â€“induced matrix metalloproteinases 1 and 13 production in human osteoarthritic chondrocytes by prostaglandin D<sub>2</sub>. Arthritis and Rheumatism, 2008, 58, 3530-3540. | 6.7 | 53 |
| 101 | Osteophytosis, Subchondral Bone Sclerosis, Joint Effusion and Soft Tissue Thickening in Canine Experimental Stifle Osteoarthritis: Comparison Between 1.5ÂT Magnetic Resonance Imaging and Computed Radiography. Veterinary Surgery, 2008, 37, 166-177. | 1.0 | 53 |
| 102 | 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. Journal of Rheumatology, 2002, 29, 546-53. | 2.0 | 52 |
| 103 | Cartilage degradation by neutral proteoglycanases in experimental osteoarthritis. Suppression by steroids. Arthritis and Rheumatism, 1985, 28, 1393-1401. | 6.7 | 51 |
| 104 | Activation of the receptor EphB4 by its specific ligand ephrin B2 in human osteoarthritic subchondral bone osteoblasts. Arthritis and Rheumatism, 2008, 58, 3820-3830. | 6.7 | 51 |
| 105 | Diacerein inhibits the synthesis of resorptive enzymes and reduces osteoclastic differentiation/survival in osteoarthritic subchondral bone: a possible mechanism for a protective effect against subchondral bone remodelling. Arthritis Research and Therapy, 2008, 10, R71. | 3.5 | 51 |
| 106 | The levels of the adipokines adipsin and leptin are associated with knee osteoarthritis progression as assessed by MRI and incidence of total knee replacement in symptomatic osteoarthritis patients: apost hocanalysis. Rheumatology, 2016, 55, 680-688. | 1.9 | 51 |
| 107 | The presence of meniscal lesions is a strong predictor of neuropathic pain in symptomatic knee osteoarthritis: a cross-sectional pilot study. Arthritis Research and Therapy, 2014, 16, 507. | 3.5 | 50 |
| 108 | A fully automated human knee 3D MRI bone segmentation using the ray casting technique. Medical and Biological Engineering and Computing, 2011, 49, 1413-1424. | 2.8 | 49 |

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|---|---|---|---|
| 109 | Subchondral bone morphological and biochemical alterations in osteoarthritis. Osteoarthritis and Cartilage, 1999, 7, 321-322. | 1.3 | 48 |
| 110 | Variable Effects of 3 Different Chondroitin Sulfate Compounds on Human Osteoarthritic Cartilage/Chondrocytes: Relevance of Purity and Production Process. Journal of Rheumatology, 2010, 37, 656-664. | 2.0 | 47 |
| 111 | Effects of Nimesulide and Naproxen on the Degradation and Metalloprotease Synthesis of Human Osteoarthritic Cartilage. Drugs, 1993, 46, 34-39. | 10.9 | 46 |
| 112 | Peroxisome proliferator-activated receptor gamma in osteoarthritis. Modern Rheumatology, 2011, 21, 1-9. | 1.8 | 46 |
| 113 | Regulation of human normal and osteoarthritic chondrocyte interleukin-1 receptor by antirheumatic drugs. Arthritis and Rheumatism, 1993, 36, 1517-1527. | 6.7 | 42 |
| 114 | Abnormal insulin-like growth factor 1 signaling in human osteoarthritic subchondral bone osteoblasts. Arthritis Research and Therapy, 2006, 8, R177. | 3.5 | 42 |
| 115 | Clinical validity of outcome pain measures in naturally occurring canine osteoarthritis. BMC Veterinary Research, 2012, 8, 162. | 1.9 | 42 |
| 116 | Tissue inhibitor of metalloproteinase-2 (TIMP-2) mRNA is constitutively expressed in bovine, human normal, and osteoarthritic articular chondrocytes. , 1996, 60, 211-217. | | 40 |
| 117 | Expression of c-fos, c-jun,jun-B, metallothionein and metalloproteinase genes in human chondrocyte. FEBS Letters, 1992, 306, 169-172. | 2.8 | 39 |
| 118 | Ntp pyrophosphohydrolase in human chondrocalcinotic and osteoarthritic cartilage: some biochemical characteristic. Arthritis and Rheumatism, 1984, 27, 186-192. | 6.7 | 38 |
| 119 | Extracellular localization of galectin-3 has a deleterious role in joint tissues. Arthritis Research and Therapy, 2007, 9, R20. | 3.5 | 38 |
| 120 | An Open-Label Pilot Study Evaluating by Magnetic Resonance Imaging the Potential for a Disease-Modifying Effect of Celecoxib Compared to a Modelized Historical Control Cohort in the Treatment of Knee Osteoarthritis. Seminars in Arthritis and Rheumatism, 2010, 40, 185-192. | 3.4 | 38 |
| 121 | Chondroitin sulfate efficacy versus celecoxib on knee osteoarthritis structural changes using magnetic resonance imaging: a 2-year multicentre exploratory study. Arthritis Research and Therapy, 2016, 18, 256. | 3.5 | 38 |
| 122 | Knee pain as a predictor of structural progression over 4 years: data from the Osteoarthritis Initiative, a prospective cohort study. Arthritis Research and Therapy, 2018, 20, 250. | 3.5 | 36 |
| 123 | Fully automated system for the quantification of human osteoarthritic knee joint effusion volume using magnetic resonance imaging. Arthritis Research and Therapy, 2010, 12, R173. | 3.5 | 35 |
| 124 | Analgesic efficacy of tramadol in cats with naturally occurring osteoarthritis. PLoS ONE, 2017, 12, e0175565. | 2.5 | 35 |
| 125 | Analysis of the precision and sensitivity to change of different approaches to assess cartilage loss by quantitative MRI in a longitudinal multicentre clinical trial in knee osteoarthritis patients. Arthritis Research and Therapy, 2008, 10, R129. | 3.5 | 34 |
| 126 | Proteinase-activated receptor (PAR)-2 activation impacts bone resorptive properties of human osteoarthritic subchondral bone osteoblasts. Bone, 2009, 44, 1143-1150. | 2.9 | 34 |

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|---|---|---|---|
| 127 | Analgesic efficacy of an oral transmucosal spray formulation of meloxicam alone or in combination with tramadol in cats with naturally occurring osteoarthritis. Veterinary Anaesthesia and Analgesia, 2016, 43, 643-651. | 0.6 | 34 |
| 128 | Activation of The Phosphatidylcholine to Lysophosphatidylcholine Pathway Is Associated with Osteoarthritis Knee Cartilage Volume Loss Over Time. Scientific Reports, 2019, 9, 9648. | 3.3 | 34 |
| 129 | Increased insulin-like growth factor 1 production by human osteoarthritic chondrocytes is not dependent on growth hormone action. Arthritis and Rheumatism, 1995, 38, 413-419. | 6.7 | 33 |
| 130 | In vivo boneâ€specific EphB4 overexpression in mice protects both subchondral bone and cartilage during osteoarthritis. Arthritis and Rheumatism, 2012, 64, 3614-3625. | 6.7 | 31 |
| 131 | Can We Identify Patients with High Risk of Osteoarthritis Progression Who Will Respond to Treatment? A Focus on Biomarkers and Frailty. Drugs and Aging, 2015, 32, 525-535. | 2.7 | 31 |
| 132 | A new decision tree for diagnosis of osteoarthritis in primary care: international consensus of experts. Aging Clinical and Experimental Research, 2019, 31, 19-30. | 2.9 | 31 |
| 133 | Leukotriene and prostaglandin synthesis pathways in osteoarthritic synovial membranes: regulating factors for interleukin 1beta synthesis. Journal of Rheumatology, 2005, 32, 704-12. | 2.0 | 31 |
| 134 | Immunological analysis of proteoglycan structural changes in the early stage of experimental osteoarthritic canine cartilage lesions. Journal of Orthopaedic Research, 1992, 10, 511-523. | 2.3 | 30 |
| 135 | Proteinase-activated Receptor-2 Gene Disruption Limits the Effect of Osteoarthritis on Cartilage in Mice: A Novel Target in Joint Degradation. Journal of Rheumatology, 2011, 38, 911-920. | 2.0 | 30 |
| 136 | A Posteriori Comparison of Natural and Surgical Destabilization Models of Canine Osteoarthritis. BioMed Research International, 2013, 2013, 1-12. | 1.9 | 30 |
| 137 | Longâ€Term Effects of Glucosamine and Chondroitin Sulfate on the Progression of Structural Changes in Knee Osteoarthritis: Sixâ€Year Followup Data From the Osteoarthritis Initiative. Arthritis Care and Research, 2016, 68, 1560-1566. | 3.4 | 30 |
| 138 | Levels of serum biomarkers from a two-year multicentre trial are associated with treatment response on knee osteoarthritis cartilage loss as assessed by magnetic resonance imaging: an exploratory study. Arthritis Research and Therapy, 2017, 19, 169. | 3.5 | 30 |
| 139 | Total Knee Replacement as a Knee Osteoarthritis Outcome. Cartilage, 2013, 4, 219-226. | 2.7 | 29 |
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