Lisa A Fortier

List of Publications by Year
in descending order

78 papers	5,436 citations	136950 32 h-index	82547 72 g-index
81 all docs	81 docs citations	81 times ranked	4980 citing authors

#	Article	IF	Citations
1	The Role of Growth Factors in Cartilage Repair. Clinical Orthopaedics and Related Research, 2011, 469, 2706-2715.	1.5	504
2	Concentrated Bone Marrow Aspirate Improves Full-Thickness Cartilage Repair Compared with Microfracture in the Equine Model. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1927-1937.	3.0	346
3	Platelet rich plasma (PRP) enhances anabolic gene expression patterns in flexor digitorum superficialis tendons. Journal of Orthopaedic Research, 2007, 25, 230-240.	2.3	337
4	Temporal growth factor release from plateletâ€rich plasma, trehalose lyophilized platelets, and bone marrow aspirate and their effect on tendon and ligament gene expression. Journal of Orthopaedic Research, 2009, 27, 1033-1042.	2.3	312
5	Effect of Leukocyte Concentration on the Efficacy of Platelet-Rich Plasma in the Treatment of Knee Osteoarthritis. American Journal of Sports Medicine, 2016, 44, 792-800.	4.2	303
6	The Anti-inflammatory and Matrix Restorative Mechanisms of Platelet-Rich Plasma in Osteoarthritis. American Journal of Sports Medicine, 2014, 42, 35-41.	4.2	294
7	Hyaluronic Acid Versus Platelet-Rich Plasma: A Prospective, Double-Blind Randomized Controlled Trial Comparing Clinical Outcomes and Effects on Intra-articular Biology for the Treatment of Knee Osteoarthritis. American Journal of Sports Medicine, 2017, 45, 339-346.	4.2	275
8	Chondrocytic differentiation of mesenchymal stem cells sequentially exposed to transforming growth factorâ€Î²1 in monolayer and insulinâ€like growth factorâ€I in a threeâ€dimensional matrix. Journal of Orthopaedic Research, 2001, 19, 738-749.	2.3	242
9	Immunoprivileged no more: measuring the immunogenicity of allogeneic adult mesenchymal stem cells. Stem Cell Research and Therapy, 2017, 8, 288.	5.5	167
10	Stem Cells: Classifications, Controversies, and Clinical Applications. Veterinary Surgery, 2005, 34, 415-423.	1.0	158
11	Bone marrow concentrate and platelet-rich plasma differ in cell distribution and interleukin 1 receptor antagonist protein concentration. Knee Surgery, Sports Traumatology, Arthroscopy, 2018, 26, 333-342.	4.2	151
12	Increasing Platelet Concentrations in Leukocyte-Reduced Platelet-Rich Plasma Decrease Collagen Gene Synthesis in Tendons. American Journal of Sports Medicine, 2014, 42, 42-49.	4.2	145
13	Platelet-rich plasma for the treatment of knee osteoarthritis: an expert opinion and proposal for a novel classification and coding system. Expert Opinion on Biological Therapy, 2020, 20, 1447-1460.	3.1	118
14	Equine bone marrow-derived mesenchymal stromal cells are heterogeneous in MHC class II expression and capable of inciting an immune response in vitro. Stem Cell Research and Therapy, 2014, 5, 13.	5.5	116
15	Equine allogeneic bone marrow-derived mesenchymal stromal cells elicit antibody responses in vivo. Stem Cell Research and Therapy, 2015, 6, 54.	5.5	110
16	BioCartilage Improves Cartilage Repair Compared With Microfracture Alone in an Equine Model of Full-Thickness Cartilage Loss. American Journal of Sports Medicine, 2016, 44, 2366-2374.	4.2	108
17	Stem cells in veterinary medicine. Stem Cell Research and Therapy, 2011, 2, 9.	5.5	107
18	Regenerative Medicine for Tendinous and Ligamentous Injuries of Sport Horses. Veterinary Clinics of North America Equine Practice, 2008, 24, 191-201.	0.7	100

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19	Equine Models of Articular Cartilage Repair. Cartilage, 2011, 2, 317-326.	2.7	96
20	Postâ€traumatic osteoarthritis of the ankle: A distinct clinical entity requiring new research approaches. Journal of Orthopaedic Research, 2017, 35, 440-453.	2.3	96
21	Coordinate upregulation of cartilage matrix synthesis in fibrin cultures supplemented with exogenous insulin-like growth factor-I. Journal of Orthopaedic Research, 1999, 17, 467-474.	2.3	92
22	Role of Platelet-Rich Plasma in Articular Cartilage Injury and Disease. Journal of Knee Surgery, 2015, 28, 003-010.	1.6	63
23	Inflammatory licensed equine MSCs are chondroprotective and exhibit enhanced immunomodulation in an inflammatory environment. Stem Cell Research and Therapy, 2018, 9, 82.	5.5	57
24	Insulinâ€like growth factorâ€I gene expression patterns during spontaneous repair of acute articular cartilage injury. Journal of Orthopaedic Research, 2001, 19, 720-728.	2.3	56
25	Considerations for the Use of Platelet-Rich Plasma in Orthopedics. Sports Medicine, 2014, 44, 1025-1036.	6.5	55
26	BioCartilage: Background and Operative Technique. Operative Techniques in Sports Medicine, 2013, 21, 116-124.	0.3	54
27	Caprine Obstructive Urolithiasis: Requirement for 2nd Surgical Intervention and Mortality After Percutaneous Tube Cystostomy, Surgical Tube Cystostomy, or Urinary Bladder Marsupialization. Veterinary Surgery, 2004, 33, 661-667.	1.0	50
28	Mitochondrial dysfunction is an acute response of articular chondrocytes to mechanical injury. Journal of Orthopaedic Research, 2018, 36, 739-750.	2.3	47
29	Microscale frictional strains determine chondrocyte fate in loaded cartilage. Journal of Biomechanics, 2018, 74, 72-78.	2.1	47
30	Phenotypic expression of equine articular chondrocytes grown in three-dimensional cultures supplemented with supraphysiologic concentrations of insulin-like growth factor-I. American Journal of Veterinary Research, 2002, 63, 301-305.	0.6	45
31	Mitoprotective therapy preserves chondrocyte viability and prevents cartilage degeneration in an ex vivo model of posttraumatic osteoarthritis. Journal of Orthopaedic Research, 2018, 36, 2147-2156.	2.3	38
32	New Surgical Treatments for Osteochondritis Dissecans and Subchondral Bone Cysts. Veterinary Clinics of North America Equine Practice, 2005, 21, 673-690.	0.7	37
33	Minimally Manipulated Bone Marrow Concentrate Compared with Microfracture Treatment of Full-Thickness Chondral Defects. Journal of Bone and Joint Surgery - Series A, 2018, 100, 138-146.	3.0	36
34	Hsp90 mediates insulin-like growth factor 1 and interleukin-1Î² signaling in an age-dependent manner in equine articular chondrocytes. Arthritis and Rheumatism, 2007, 56, 2335-2343.	6.7	34
35	Integrin Î±10Î²1-Selected Mesenchymal Stem Cells Mitigate the Progression of Osteoarthritis in an Equine Talar Impact Model. American Journal of Sports Medicine, 2020, 48, 612-623.	4.2	33
36	The immunomodulatory function of equine MSCs is enhanced by priming through an inflammatory microenvironment or TLR3 ligand. Veterinary Immunology and Immunopathology, 2018, 195, 33-39.	1.2	32

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37	Long-term Evaluation of Meniscal Tissue Formation in 3-dimensionalâ€"Printed Scaffolds With Sequential Release of Connective Tissue Growth Factor and TGF-Î²3 in an Ovine Model. American Journal of Sports Medicine, 2019, 47, 2596-2607.	4.2	32
38	Synoviocytes are more sensitive than cartilage to the effects of minocycline and doxycycline on IL-1Î± and MMP-13-induced catabolic gene responses. Journal of Orthopaedic Research, 2010, 28, 522-528.	2.3	30
39	Science and Animal Models of Marrow Stimulation for Cartilage Repair. Journal of Knee Surgery, 2012, 25, 003-008.	1.6	30
40	Characterization of Tissue Response to Impact Loads Delivered Using a Hand-Held Instrument for Studying Articular Cartilage Injury. Cartilage, 2015, 6, 226-232.	2.7	27
41	Platelet-rich plasma activation in combination with biphasic osteochondral scaffoldsâ€"conditions for maximal growth factor production. Knee Surgery, Sports Traumatology, Arthroscopy, 2011, 19, 1942-1947.	4.2	26
42	Human talar and femoral cartilage have distinct mechanical properties near the articular surface. Journal of Biomechanics, 2016, 49, 3320-3327.	2.1	26
43	Biological Effects of Bone Marrow Concentrate in Knee Pathologies. Journal of Knee Surgery, 2019, 32, 002-008.	1.6	26
44	Interleukinâ€1Î±, â€6, and â€8 decrease Cdc42 activity resulting in loss of articular chondrocyte phenotype. Journal of Orthopaedic Research, 2012, 30, 246-251.	2.3	22
45	Signaling through the small G-protein Cdc42 is involved in insulin-like growth factor-I resistance in aging articular chondrocytes. Journal of Orthopaedic Research, 2006, 24, 1765-1772.	2.3	21
46	Osteochondral tissue engineering using a biphasic collagen/GAG scaffold containing rhFGF18 or BMP-7 in an ovine model. Journal of Experimental Orthopaedics, 2014, 1, 13.	1.8	21
47	The clot thickens: Autologous and allogeneic fibrin sealants are mechanically equivalent in an ex vivo model of cartilage repair. PLoS ONE, 2019, 14, e0224756.	2.5	21
48	Clinically Significant Outcomes Following the Treatment of Focal Cartilage Defects of the Knee With Microfracture Augmentation Using Cartilage Allograft Extracellular Matrix: A Multicenter Prospective Study. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2021, 37, 1512-1521.	2.7	21
49	The small GTPase Rho mediates articular chondrocyte phenotype and morphology in response to interleukinâ€1Î± and insulinâ€like growth factorâ€I. Journal of Orthopaedic Research, 2009, 27, 58-64.	2.3	20
50	Equine mesenchymal stromal cells from different tissue sources display comparable immune-related gene expression profiles in response to interferon gamma (IFN)-Î³. Veterinary Immunology and Immunopathology, 2018, 202, 25-30.	1.2	20
51	Effect of needle diameter on the viability of equine bone marrow derived mesenchymal stem cells. Veterinary Surgery, 2017, 46, 731-737.	1.0	18
52	Facilitated recruitment of mesenchymal stromal cells by bone marrow concentrate and platelet rich plasma. PLoS ONE, 2018, 13, e0194567.	2.5	18
53	Comparison of Three Methods to Quantify Repair Cartilage Collagen Orientation. Cartilage, 2013, 4, 111-120.	2.7	16
54	Insulin-like growth factor-I diminishes the activation status and expression of the small GTPase Cdc42 in articular chondrocytes. Journal of Orthopaedic Research, 2004, 22, 436-445.	2.3	15

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55	Biological Mechanisms for Cartilage Repair Using a BioCartilage Scaffold: Cellular Adhesion/Migration and Bioactive Proteins. Cartilage, 2021, 13, 984S-992S.	2.7	15
56	Cartilage articulation exacerbates chondrocyte damage and death after impact injury. Journal of Orthopaedic Research, 2021, 39, 2130-2140.	2.3	13
57	Two-Year Evaluation of Osteochondral Repair with a Novel Biphasic Graft Saturated in Bone Marrow in an Equine Model. Cartilage, 2017, 8, 406-416.	2.7	12
58	Position Statement: Minimal Criteria for Reporting Veterinary and Animal Medicine Research for Mesenchymal Stromal/Stem Cells in Orthopedic Applications. Frontiers in Veterinary Science, 2022, 9, 817041.	2.2	12
59	American Society for Bone and Mineral Researchâ€Orthopaedic Research Society Joint Task Force Report on Cellâ€Based Therapies. Journal of Bone and Mineral Research, 2020, 35, 3-17.	2.8	11
60	Return to racing after surgical management of third carpal bone slab fractures in thoroughbred and standardbred racehorses. Veterinary Surgery, 2019, 48, 513-523.	1.0	10
61	Proteomic Analysis and Cell Viability of Nine Amnion, Chorion, Umbilical Cord, and Amniotic Fluidâ€"Derived Products. Cartilage, 2021, 13, 495S-507S.	2.7	10
62	Short-Term Storage of Platelet-Rich Plasma at Room Temperature Does Not Affect Growth Factor or Catabolic Cytokine Concentration. American Journal of Orthopedics, 2018, 47, .	0.7	9
63	The Effect of Single vs Serial Platelet-Rich Plasma Injections in Osteochondral Lesions Treated With Microfracture: An In Vivo Rabbit Model. American Journal of Sports Medicine, 2021, 49, 3876-3886.	4.2	9
64	Systemic Therapies for Joint Disease in Horses. Veterinary Clinics of North America Equine Practice, 2005, 21, 547-557.	0.7	8
65	Mesenchymal Stem Cell Therapy: Clinical Progress and Opportunities for Advancement. Current Pathobiology Reports, 2015, 3, 1-7.	3.4	8
66	Structural origins of cartilage shear mechanics. Science Advances, 2022, 8, eabk2805.	10.3	8
67	Assessment of cartilage degradation effects of matrix metalloproteinase-13 in equine cartilage cocultured with synoviocytes. American Journal of Veterinary Research, 2007, 68, 379-384.	0.6	7
68	American Society for Bone and Mineral Researchâ€Orthopaedic Research Society Joint Task Force Report on Cellâ€Based Therapies â€" Secondary Publication. Journal of Orthopaedic Research, 2020, 38, 485-502.	2.3	7
69	Synovial fluid lubricin and hyaluronan are altered in equine osteochondral fragmentation, cartilage impact injury, and fullâ€thickness cartilage defect models. Journal of Orthopaedic Research, 2020, 38, 1826-1835.	2.3	5
70	Regulatory T cells provide chondroprotection through increased TIMP1, IL-10 and IL-4, but cannot mitigate the catabolic effects of IL-1Î² and IL-6 in a tri-culture model of osteoarthritis. Osteoarthritis and Cartilage Open, 2021, 3, 100193.	2.0	5
71	One health in regenerative medicine: report on the second Havemeyer symposium on regenerative medicine in horses. Regenerative Medicine, 2020, 15, 1775-1787.	1.7	4
72	Rhodococcus equi Joint Sepsis and Osteomyelitis Is Associated With a Grave Prognosis in Foals. Frontiers in Veterinary Science, 2019, 6, 503.	2.2	4

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73	Platelet and Leukocyte Concentration in Equine Autologous Conditioned Plasma Are Inversely Distributed by Layer and Are Not Affected by Centrifugation Rate. Frontiers in Veterinary Science, 2020, 7, 173.	2.2	3
74	Early Failure of a Polyvinyl Alcohol Hydrogel Implant With Osteolysis and Foreign Body Reactions in an Ovine Model of Cartilage Repair. American Journal of Sports Medicine, 2021, 49, 3395-3403.	4.2	2
75	Basic Science of Resident Stem Cells. Operative Techniques in Sports Medicine, 2020, 28, 150776.	0.3	1
76	High-Plex RNA Expression Profiling of Formalin-Fixed Paraffin-Embedded Synovial Membrane Indicates Potential Mechanism of Mesenchymal Stromal Cells in the Mitigation of Posttraumatic Osteoarthritis. Cartilage, 2021, , 194760352199352.	2.7	1
77	Dose-Dependent Increase in Whole Blood Omega-3 Fatty Acid Concentration in Horses Receiving a Marine-Based Fatty-Acid Supplement. Journal of Equine Veterinary Science, 2022, 108, 103781.	0.9	1
78	An Exploratory Study into the Implantation of Arytenoid Cartilage Scaffold in the Horse. Tissue Engineering - Part A, 2021, 27, 165-176.	3.1	0