Marianna A Tryfonidou

List of Publications by Year
in descending order

96 papers	2,056 citations	201674 27 h-index	315739 38 g-index
97 all docs	97 docs citations	97 times ranked	2002 citing authors

#	Article	IF	Citations
1	Patientâ€specific 3Dâ€printed shelf implant for the treatment of hip dysplasia: Anatomical and biomechanical outcomes in a canine model. Journal of Orthopaedic Research, 2022, 40, 1154-1162.	2.3	10
2	The function of CD146 in human annulus fibrosus cells and mechanism of the regulation by TGFâ€î². Journal of Orthopaedic Research, 2022, 40, 1661-1671.	2.3	3
3	A bovine nucleus pulposus explant culture model. Journal of Orthopaedic Research, 2022, 40, 2089-2102.	2.3	7
4	Intervertebral disc degeneration in warmblood horses: Histological and biochemical characterization. Veterinary Pathology, 2022, 59, 284-298.	1.7	2
5	Folate Receptor Expression by Human Monocyteâ€"Derived Macrophage Subtypes and Effects of Corticosteroids. Cartilage, 2022, 13, 194760352210814.	2.7	5
6	Knee Joint Distraction in a Dog as Treatment for Severe Osteoarthritis. VCOT Open, 2022, 05, e11-e17.	0.2	2
7	Patient-specific 3D-printed shelf implant for the treatment of hip dysplasia tested in an experimental animal pilot in canines. Scientific Reports, 2022, 12, 3032.	3.3	2
8	Injectable Hydrogels for Articular Cartilage and Nucleus Pulposus Repair: Status Quo and Prospects. Tissue Engineering - Part A, 2022, 28, 478-499.	3.1	13
9	Mechanisms and clinical implications of intervertebral disc calcification. Nature Reviews Rheumatology, 2022, 18, 352-362.	8.0	33
10	Roles and responsibilities in stem cell research: a focus group study with stem cell researchers and patients. Regenerative Medicine, 2022, 17, 445-459.	1.7	3
11	Transformed Canine and Murine Mesenchymal Stem Cells as a Model for Sarcoma with Complex Genomics. Cancers, 2021, 13, 1126.	3.7	5
12	The lower in vitro chondrogenic potential of canine adipose tissue-derived mesenchymal stromal cells (MSC) compared to bone marrow-derived MSC is not improved by BMP-2 or BMP-6. Veterinary Journal, 2021, 269, 105605.	1.7	12
13	Intra-Articular Slow-Release Triamcinolone Acetonide from Polyesteramide Microspheres as a Treatment for Osteoarthritis. Pharmaceutics, 2021, 13, 372.	4.5	4
14	Enhanced Extracellular Matrix Breakdown Characterizes the Early Distraction Phase of Canine Knee Joint Distraction. Cartilage, 2021, 13, 1654S-1664S.	2.7	4
15	Biomechanical effects of a titanium intervertebral cage as a standâ€alone device, and in combination with locking plates in the canine caudal cervical spine. Veterinary Surgery, 2021, 50, 1087-1097.	1.0	4
16	A comprehensive tool box for large animal studies of intervertebral disc degeneration. JOR Spine, 2021, 4, e1162.	3.2	19
17	A perspective on the <scp>ORS Spine Section</scp> initiative to develop a multiâ€species <scp>JOR Spine</scp> histopathology series. JOR Spine, 2021, 4, e1165.	3.2	2
18	Recognizing the ethical implications of stem cell research: A call for broadening the scope. Stem Cell Reports, 2021, 16, 1656-1661.	4.8	14

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19	Osteopetrosis in a Domestic Shorthair Cat. VCOT Open, 2021, 04, e79-e85.	0.2	1
20	Prospective Evaluation of Local Sustained Release of Celecoxib in Dogs with Low Back Pain. Pharmaceutics, 2021, 13, 1178.	4.5	8
21	Selection of Highly Proliferative and Multipotent Meniscus Progenitors through Differential Adhesion to Fibronectin: A Novel Approach in Meniscus Tissue Engineering. International Journal of Molecular Sciences, 2021, 22, 8614.	4.1	5
22	The genomic profiling and MAMLD1 expression in human and canines with Cushingâ€™s disease. BMC Endocrine Disorders, 2021, 21, 185.	2.2	1
23	Sustained Intra-Articular Release and Biocompatibility of Tacrolimus (FK506) Loaded Monospheres Composed of [PDLA-PEG1000]-b-[PLLA] Multi-Block Copolymers in Healthy Horse Joints. Pharmaceutics, 2021, 13, 1438.	4.5	1
24	iPS Cells: Donâ€™t Forget about the Soft Impacts. Studia Universitatis BabeÈ™-Bolyai Bioethica, 2021, 66, 26-27.	0.0	0
25	Cell sources proposed for nucleus pulposus regeneration. JOR Spine, 2021, 4, e1175.	3.2	34
26	Notochordal Cell-Based Treatment Strategies and Their Potential in Intervertebral Disc Regeneration. Frontiers in Cell and Developmental Biology, 2021, 9, 780749.	3.7	21
27	Comparing Hip Dysplasia in Dogs and Humans: A Review. Frontiers in Veterinary Science, 2021, 8, 791434.	2.2	6
28	Degenerative lumbar disc disease: in vivo data support the rationale for the selection of appropriate animal models. , 2020, 39, 17-48.		14
29	Characterization of biomaterials intended for use in the nucleus pulposus of degenerated intervertebral discs. Acta Biomaterialia, 2020, 114, 1-15.	8.3	35
30	â€œOld Drugs, New Tricksâ€•â€“ Local controlled drug release systems for treatment of degenerative joint disease. Advanced Drug Delivery Reviews, 2020, 160, 170-185.	13.7	36
31	Bone Morphogenetic Proteins for Nucleus Pulposus Regeneration. International Journal of Molecular Sciences, 2020, 21, 2720.	4.1	12
32	Notochordal Cell Matrix As a Therapeutic Agent for Intervertebral Disc Regeneration. Tissue Engineering - Part A, 2019, 25, 830-841.	3.1	22
33	The Osteoinductive Effect of Controlled Bone Morphogenic Protein 2 Release Is Location Dependent. Tissue Engineering - Part A, 2019, 25, 193-202.	3.1	6
34	Local controlled release of corticosteroids extends surgically induced joint instability by inhibiting tissue healing. British Journal of Pharmacology, 2019, 176, 4050-4064.	5.4	15
35	Dog as a Model for Osteoarthritis: The FGF4 Retrogene Insertion May Matter. Journal of Orthopaedic Research, 2019, 37, 2550-2560.	2.3	10
36	Canine IL4-10 fusion protein provides disease modifying activity in a canine model of OA; an exploratory study. PLoS ONE, 2019, 14, e0219587.	2.5	12

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37	Instrumented cervical fusion in nine dogs with caudal cervical spondylomyelopathy. Veterinary Surgery, 2019, 48, 1287-1298.	1.0	17
38	Fluorescence-Activated Cell Sorting Is More Potent to Fish Intervertebral Disk Progenitor Cells Than Magnetic and Beads-Based Methods. Tissue Engineering - Part C: Methods, 2019, 25, 571-580.	2.1	15
39	Sequential Treatment of a Large Pituitary Corticotroph Neoplasm and Associated Neurological Signs in a Dog. Journal of the American Animal Hospital Association, 2019, 55, e55202.	1.1	4
40	Aquaporin expression in the human and canine intervertebral disc during maturation and degeneration. JOR Spine, 2019, 2, e1049.	3.2	15
41	Intra-articular injection of triamcinolone acetonide releasing biomaterial microspheres inhibits pain and inflammation in an acute arthritis model. Drug Delivery, 2019, 26, 226-236.	5.7	32
42	Safety of intradiscal delivery of triamcinolone acetonide by a poly(esteramide) microsphere platform in a large animal model of intervertebral disc degeneration. Spine Journal, 2019, 19, 905-919.	1.3	20
43	Applicability of a Modified Rat Model of Acute Arthritis for Long-Term Testing of Drug Delivery Systems. Pharmaceutics, 2019, 11, 70.	4.5	12
44	Hedgehog proteins and parathyroid hormoneâ€rrelated protein are involved in intervertebral disc maturation, degeneration, and calcification. JOR Spine, 2019, 2, e1071.	3.2	15
45	Fibrin-hyaluronic acid hydrogel-based delivery of antisense oligonucleotides for ADAMTS5 inhibition in co-delivered and resident joint cells in osteoarthritis. Journal of Controlled Release, 2019, 294, 247-258.	9.9	34
46	Effect of Biomaterial Electrical Charge on Bone Morphogenetic Protein-2-Induced In Vivo Bone Formation. Tissue Engineering - Part A, 2019, 25, 1037-1052.	3.1	15
47	Hypoxia negatively affects senescence in osteoclasts and delays osteoclastogenesis. Journal of Cellular Physiology, 2019, 234, 414-426.	4.1	21
48	Growth plate expression profiling: Large and small breed dogs provide new insights in endochondral bone formation. Journal of Orthopaedic Research, 2018, 36, 138-148.	2.3	5
49	Comparing Hydrogels for Human Nucleus Pulposus Regeneration: Role of Osmolarity During Expansion. Tissue Engineering - Part C: Methods, 2018, 24, 222-232.	2.1	16
50	Bone morphogenetic protein-2 release profile modulates bone formation in phosphorylated hydrogel. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1339-1351.	2.7	26
51	Intradiscal application of a PCLAâ€“PEGâ€“PCLA hydrogel loaded with celecoxib for the treatment of back pain in canines: What's in it for humans?. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 642-652.	2.7	38
52	Phosphate Functional Groups Improve Oligo[(Polyethylene Glycol) Fumarate] Osteoconduction and BMP-2 Osteoinductive Efficacy. Tissue Engineering - Part A, 2018, 24, 819-829.	3.1	23
53	Biologic canine and human intervertebral disc repair by notochordal cell-derived matrix: from bench towards bedside. Oncotarget, 2018, 9, 26507-26526.	1.8	36
54	IL4-10 fusion protein has chondroprotective, anti-inflammatory and potentially analgesic effects in the treatment of osteoarthritis. Osteoarthritis and Cartilage, 2018, 26, 1127-1135.	1.3	27

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55	In Vitro and In Vivo Correlation of Bone Morphogenetic Protein-2 Release Profiles from Complex Delivery Vehicles. Tissue Engineering - Part C: Methods, 2018, 24, 379-390.	2.1	7
56	Notochordal cell matrix: An inhibitor of neurite and blood vessel growth?. Journal of Orthopaedic Research, 2018, 36, 3188-3195.	2.3	8
57	Leaping the hurdles in developing regenerative treatments for the intervertebral disc from preclinical to clinical. JOR Spine, 2018, 1, e1027.	3.2	40
58	Intradiscal delivery of celecoxib-loaded microspheres restores intervertebral disc integrity in a preclinical canine model. Journal of Controlled Release, 2018, 286, 439-450.	9.9	49
59	Temporary Segmental Distraction in a Dog with Degenerative Lumbosacral Stenosis. Veterinary and Comparative Orthopaedics and Traumatology, 2018, 31, 298-303.	0.5	4
60	Controlled release of celecoxib inhibits inflammation, bone cysts and osteophyte formation in a preclinical model of osteoarthritis. Drug Delivery, 2018, 25, 1438-1447.	5.7	35
61	Successful fishing for nucleus pulposus progenitor cells of the intervertebral disc across species. JOR Spine, 2018, 1, e1018.	3.2	44
62	Focal adhesion signaling affects regeneration by human nucleus pulposus cells in collagen- but not carbohydrate-based hydrogels. Acta Biomaterialia, 2018, 66, 238-247.	8.3	20
63	Effect of a titanium cage as a stand-alone device on biomechanical stability in the lumbosacral spine of canine cadavers. Veterinary Journal, 2017, 220, 17-23.	1.7	14
64	The Myth of Fibroid Degeneration in the Canine Intervertebral Disc: A Histopathological Comparison of Intervertebral Disc Degeneration in Chondrodystrophic and Nonchondrodystrophic Dogs. Veterinary Pathology, 2017, 54, 945-952.	1.7	32
65	Bone Morphogenetic Protein-2, But Not Mesenchymal Stromal Cells, Exert Regenerative Effects on Canine and Human Nucleus Pulposus Cells. Tissue Engineering - Part A, 2017, 23, 233-242.	3.1	16
66	Safety of intradiscal injection and biocompatibility of polyester amide microspheres in a canine model predisposed to intervertebral disc degeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 707-714.	3.4	22
67	Link-N: The missing link towards intervertebral disc repair is species-specific. PLoS ONE, 2017, 12, e0187831.	2.5	15
68	Notochordal-cell derived extracellular vesicles exert regenerative effects on canine and human nucleus pulposus cells. Oncotarget, 2017, 8, 88845-88856.	1.8	27
69	Characterization and Comparison of Canine Multipotent Stromal Cells Derived from Liver and Bone Marrow. Stem Cells and Development, 2016, 25, 139-150.	2.1	18
70	The Influence of Pituitary Size on Outcome After Transsphenoidal Hypophysectomy in a Large Cohort of Dogs with Pituitaryâ€Dependent Hypercortisolism. Journal of Veterinary Internal Medicine, 2016, 30, 989-995.	1.6	45
71	Increased caveolin-1 in intervertebral disc degeneration facilitates repair. Arthritis Research and Therapy, 2016, 18, 59.	3.5	19
72	Inflammatory profiles in canine intervertebral disc degeneration. BMC Veterinary Research, 2016, 12, 10.	1.9	43

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73	The Stimulatory Effect of Notochordal Cell-Conditioned Medium in a Nucleus Pulposus Explant Culture. Tissue Engineering - Part A, 2016, 22, 103-110.	3.1	24
74	Lack of Ubiquitin Specific Protease 8 (USP8) Mutations in Canine Corticotroph Pituitary Adenomas. PLoS ONE, 2016, 11, e0169009.	2.5	7
75	Intradiscal application of rhBMP-7 does not induce regeneration in a canine model of spontaneous intervertebral disc degeneration. Arthritis Research and Therapy, 2015, 17, 137.	3.5	49
76	Pedicle screw-rod fixation: a feasible treatment for dogs with severe degenerative lumbosacral stenosis. BMC Veterinary Research, 2015, 11, 299.	1.9	29
77	Biocompatibility and intradiscal application of a thermoreversible celecoxib-loaded poly-N-isopropylacrylamide MgFe-layered double hydroxide hydrogel in a canine model. Arthritis Research and Therapy, 2015, 17, 214.	3.5	43
78	A novel injectable thermoresponsive and cytocompatible gel of poly(N-isopropylacrylamide) with layered double hydroxides facilitates siRNA delivery into chondrocytes in 3D culture. Acta Biomaterialia, 2015, 23, 214-228.	8.3	42
79	Expression and clinical relevance of paired box protein 7 and sex determining region Y-box 2 in canine corticotroph pituitary adenomas. Veterinary Journal, 2015, 204, 315-321.	1.7	3
80	Effect of coculturing canine notochordal, nucleus pulposus and mesenchymal stromal cells for intervertebral disc regeneration. Arthritis Research and Therapy, 2015, 17, 60.	3.5	31
81	The Effects of Naproxen on Chondrogenesis of Human Mesenchymal Stem Cells. Tissue Engineering - Part A, 2015, 21, 2136-2146.	3.1	6
82	Increased bone morphogenetic protein 7 signalling in the kidneys of dogs affected with a congenital portosystemic shunt. Veterinary Journal, 2015, 204, 226-228.	1.7	3
83	Conditioned Medium Derived from Notochordal Cell-Rich Nucleus Pulposus Tissue Stimulates Matrix Production by Canine Nucleus Pulposus Cells and Bone Marrow-Derived Stromal Cells. Tissue Engineering - Part A, 2015, 21, 1077-1084.	3.1	42
84	Genome Wide Analysis Indicates Genes for Basement Membrane and Cartilage Matrix Proteins as Candidates for Hip Dysplasia in Labrador Retrievers. PLoS ONE, 2014, 9, e87735.	2.5	32
85	Potential regenerative treatment strategies for intervertebral disc degeneration in dogs. BMC Veterinary Research, 2014, 10, 3.	1.9	44
86	The Paracrine Feedback Loop Between Vitamin D₃ (1,25(OH)₂D₃) and PTHrP in Prehypertrophic Chondrocytes. Journal of Cellular Physiology, 2014, 229, 1999-2014.	4.1	21
87	Update on canine MSC markers. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 379-381.	1.5	7
88	Increased Osmolarity and Cell Clustering Preserve Canine Notochordal Cell Phenotype in Culture. Tissue Engineering - Part C: Methods, 2014, 20, 652-662.	2.1	37
89	Gene expression profiling of early intervertebral disc degeneration reveals a down-regulation of canonical Wnt signaling and caveolin-1 expression: implications for development of regenerative strategies. Arthritis Research and Therapy, 2013, 15, R23.	3.5	65
90	Intervertebral disc degeneration in the dog. Part 2: Chondrodystrophic and non-chondrodystrophic breeds. Veterinary Journal, 2013, 195, 292-299.	1.7	138

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91	Intervertebral disc degeneration in the dog. Part 1: Anatomy and physiology of the intervertebral disc and characteristics of intervertebral disc degeneration. Veterinary Journal, 2013, 195, 282-291.	1.7	110
92	Stem cells in the canine pituitary gland and in pituitary adenomas. Veterinary Quarterly, 2013, 33, 217-224.	6.7	3
93	Canonical Wnt signaling in the notochordal cell is upregulated in early intervertebral disk degeneration. Journal of Orthopaedic Research, 2012, 30, 950-957.	2.3	53
94	Novel type II collagen reporter mice: New tool for assessing collagen 2Î±1 expression in vivo and in vitro. Developmental Dynamics, 2011, 240, 663-673.	1.8	10
95	Increased vitamin Dâ€driven signalling and expression of the vitamin D receptor, MSX2, and RANKL in tooth resorption in cats. European Journal of Oral Sciences, 2010, 118, 39-46.	1.5	22
96	Inflammatory cytokines and the nuclear vitamin D receptor are implicated in the pathophysiology of dental resorptive lesions in cats. Veterinary Immunology and Immunopathology, 2009, 132, 160-166.	1.2	23