

Marianna A Tryfonidou

List of Publications by Year in descending order

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96
papers

2,056
citations

201674

27
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315739

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97
docs citations

97
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	Intervertebral disc degeneration in the dog. Part 2: Chondrodystrophic and non-chondrodystrophic breeds. <i>Veterinary Journal</i> , 2013, 195, 292-299.	1.7	138
2	Intervertebral disc degeneration in the dog. Part 1: Anatomy and physiology of the intervertebral disc and characteristics of intervertebral disc degeneration. <i>Veterinary Journal</i> , 2013, 195, 282-291.	1.7	110
3	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. <i>Arthritis Research and Therapy</i> , 2013, 15, R23.	3.5	65
4	Canonical Wnt signaling in the notochordal cell is upregulated in early intervertebral disk degeneration. <i>Journal of Orthopaedic Research</i> , 2012, 30, 950-957.	2.3	53
5	Intradiscal application of rhBMP-7 does not induce regeneration in a canine model of spontaneous intervertebral disc degeneration. <i>Arthritis Research and Therapy</i> , 2015, 17, 137.	3.5	49
6	Intradiscal delivery of celecoxib-loaded microspheres restores intervertebral disc integrity in a preclinical canine model. <i>Journal of Controlled Release</i> , 2018, 286, 439-450.	9.9	49
7	The Influence of Pituitary Size on Outcome After Transsphenoidal Hypophysectomy in a Large Cohort of Dogs with Pituitary-Dependent Hypercortisolism. <i>Journal of Veterinary Internal Medicine</i> , 2016, 30, 989-995.	1.6	45
8	Potential regenerative treatment strategies for intervertebral disc degeneration in dogs. <i>BMC Veterinary Research</i> , 2014, 10, 3.	1.9	44
9	Successful fishing for nucleus pulposus progenitor cells of the intervertebral disc across species. <i>JOR Spine</i> , 2018, 1, e1018.	3.2	44
10	Biocompatibility and intradiscal application of a thermoreversible celecoxib-loaded poly-N-isopropylacrylamide MgFe-layered double hydroxide hydrogel in a canine model. <i>Arthritis Research and Therapy</i> , 2015, 17, 214.	3.5	43
11	Inflammatory profiles in canine intervertebral disc degeneration. <i>BMC Veterinary Research</i> , 2016, 12, 10.	1.9	43
12	A novel injectable thermoresponsive and cytocompatible gel of poly(N-isopropylacrylamide) with layered double hydroxides facilitates siRNA delivery into chondrocytes in 3D culture. <i>Acta Biomaterialia</i> , 2015, 23, 214-228.	8.3	42
13	Conditioned Medium Derived from Notochordal Cell-Rich Nucleus Pulposus Tissue Stimulates Matrix Production by Canine Nucleus Pulposus Cells and Bone Marrow-Derived Stromal Cells. <i>Tissue Engineering - Part A</i> , 2015, 21, 1077-1084.	3.1	42
14	Leaping the hurdles in developing regenerative treatments for the intervertebral disc from preclinical to clinical. <i>JOR Spine</i> , 2018, 1, e1027.	3.2	40
15	Intradiscal application of a PCLA-PEG-PCLA hydrogel loaded with celecoxib for the treatment of back pain in canines: What's in it for humans?. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 642-652.	2.7	38
16	Increased Osmolarity and Cell Clustering Preserve Canine Notochordal Cell Phenotype in Culture. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 652-662.	2.1	37
17	Biologic canine and human intervertebral disc repair by notochordal cell-derived matrix: from bench towards bedside. <i>Oncotarget</i> , 2018, 9, 26507-26526.	1.8	36
18	“Old Drugs, New Tricks” Local controlled drug release systems for treatment of degenerative joint disease. <i>Advanced Drug Delivery Reviews</i> , 2020, 160, 170-185.	13.7	36

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19	Controlled release of celecoxib inhibits inflammation, bone cysts and osteophyte formation in a preclinical model of osteoarthritis. <i>Drug Delivery</i> , 2018, 25, 1438-1447.	5.7	35
20	Characterization of biomaterials intended for use in the nucleus pulposus of degenerated intervertebral discs. <i>Acta Biomaterialia</i> , 2020, 114, 1-15.	8.3	35
21	Fibrin-hyaluronic acid hydrogel-based delivery of antisense oligonucleotides for ADAMTS5 inhibition in co-delivered and resident joint cells in osteoarthritis. <i>Journal of Controlled Release</i> , 2019, 294, 247-258.	9.9	34
22	Cell sources proposed for nucleus pulposus regeneration. <i>JOR Spine</i> , 2021, 4, e1175.	3.2	34
23	Mechanisms and clinical implications of intervertebral disc calcification. <i>Nature Reviews Rheumatology</i> , 2022, 18, 352-362.	8.0	33
24	Genome Wide Analysis Indicates Genes for Basement Membrane and Cartilage Matrix Proteins as Candidates for Hip Dysplasia in Labrador Retrievers. <i>PLoS ONE</i> , 2014, 9, e87735.	2.5	32
25	The Myth of Fibroid Degeneration in the Canine Intervertebral Disc: A Histopathological Comparison of Intervertebral Disc Degeneration in Chondrodystrophic and Nonchondrodystrophic Dogs. <i>Veterinary Pathology</i> , 2017, 54, 945-952.	1.7	32
26	Intra-articular injection of triamcinolone acetone releasing biomaterial microspheres inhibits pain and inflammation in an acute arthritis model. <i>Drug Delivery</i> , 2019, 26, 226-236.	5.7	32
27	Effect of coculturing canine notochordal, nucleus pulposus and mesenchymal stromal cells for intervertebral disc regeneration. <i>Arthritis Research and Therapy</i> , 2015, 17, 60.	3.5	31
28	Pedicle screw-rod fixation: a feasible treatment for dogs with severe degenerative lumbosacral stenosis. <i>BMC Veterinary Research</i> , 2015, 11, 299.	1.9	29
29	IL4-10 fusion protein has chondroprotective, anti-inflammatory and potentially analgesic effects in the treatment of osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1127-1135.	1.3	27
30	Notochordal-cell derived extracellular vesicles exert regenerative effects on canine and human nucleus pulposus cells. <i>Oncotarget</i> , 2017, 8, 88845-88856.	1.8	27
31	Bone morphogenetic protein-2 release profile modulates bone formation in phosphorylated hydrogel. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 1339-1351.	2.7	26
32	The Stimulatory Effect of Notochordal Cell-Conditioned Medium in a Nucleus Pulposus Explant Culture. <i>Tissue Engineering - Part A</i> , 2016, 22, 103-110.	3.1	24
33	Inflammatory cytokines and the nuclear vitamin D receptor are implicated in the pathophysiology of dental resorptive lesions in cats. <i>Veterinary Immunology and Immunopathology</i> , 2009, 132, 160-166.	1.2	23
34	Phosphate Functional Groups Improve Oligo[(Polyethylene Glycol) Fumarate] Osteoconduction and BMP-2 Osteoinductive Efficacy. <i>Tissue Engineering - Part A</i> , 2018, 24, 819-829.	3.1	23
35	Increased vitamin D driven signalling and expression of the vitamin D receptor, MSX2, and RANKL in tooth resorption in cats. <i>European Journal of Oral Sciences</i> , 2010, 118, 39-46.	1.5	22
36	Safety of intradiscal injection and biocompatibility of polyester amide microspheres in a canine model predisposed to intervertebral disc degeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 707-714.	3.4	22

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37	Notochordal Cell Matrix As a Therapeutic Agent for Intervertebral Disc Regeneration. <i>Tissue Engineering - Part A</i> , 2019, 25, 830-841.	3.1	22
38	The Paracrine Feedback Loop Between Vitamin D ₃ (1,25(OH) ₂ D ₃) and PTHrP in Prehypertrophic Chondrocytes. <i>Journal of Cellular Physiology</i> , 2014, 229, 1999-2014.	4.1	21
39	Hypoxia negatively affects senescence in osteoclasts and delays osteoclastogenesis. <i>Journal of Cellular Physiology</i> , 2019, 234, 414-426.	4.1	21
40	Notochordal Cell-Based Treatment Strategies and Their Potential in Intervertebral Disc Regeneration. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 780749.	3.7	21
41	Safety of intradiscal delivery of triamcinolone acetonide by a poly(esteramide) microsphere platform in a large animal model of intervertebral disc degeneration. <i>Spine Journal</i> , 2019, 19, 905-919.	1.3	20
42	Focal adhesion signaling affects regeneration by human nucleus pulposus cells in collagen- but not carbohydrate-based hydrogels. <i>Acta Biomaterialia</i> , 2018, 66, 238-247.	8.3	20
43	Increased caveolin-1 in intervertebral disc degeneration facilitates repair. <i>Arthritis Research and Therapy</i> , 2016, 18, 59.	3.5	19
44	A comprehensive tool box for large animal studies of intervertebral disc degeneration. <i>JOR Spine</i> , 2021, 4, e1162.	3.2	19
45	Characterization and Comparison of Canine Multipotent Stromal Cells Derived from Liver and Bone Marrow. <i>Stem Cells and Development</i> , 2016, 25, 139-150.	2.1	18
46	Instrumented cervical fusion in nine dogs with caudal cervical spondylomyelopathy. <i>Veterinary Surgery</i> , 2019, 48, 1287-1298.	1.0	17
47	Bone Morphogenetic Protein-2, But Not Mesenchymal Stromal Cells, Exert Regenerative Effects on Canine and Human Nucleus Pulposus Cells. <i>Tissue Engineering - Part A</i> , 2017, 23, 233-242.	3.1	16
48	Comparing Hydrogels for Human Nucleus Pulposus Regeneration: Role of Osmolarity During Expansion. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 222-232.	2.1	16
49	Link-N: The missing link towards intervertebral disc repair is species-specific. <i>PLoS ONE</i> , 2017, 12, e0187831.	2.5	15
50	Local controlled release of corticosteroids extends surgically induced joint instability by inhibiting tissue healing. <i>British Journal of Pharmacology</i> , 2019, 176, 4050-4064.	5.4	15
51	Fluorescence-Activated Cell Sorting Is More Potent to Fish Intervertebral Disk Progenitor Cells Than Magnetic and Beads-Based Methods. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 571-580.	2.1	15
52	Aquaporin expression in the human and canine intervertebral disc during maturation and degeneration. <i>JOR Spine</i> , 2019, 2, e1049.	3.2	15
53	Hedgehog proteins and parathyroid hormone-related protein are involved in intervertebral disc maturation, degeneration, and calcification. <i>JOR Spine</i> , 2019, 2, e1071.	3.2	15
54	Effect of Biomaterial Electrical Charge on Bone Morphogenetic Protein-2-Induced <i>In Vivo</i> Bone Formation. <i>Tissue Engineering - Part A</i> , 2019, 25, 1037-1052.	3.1	15

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55	Effect of a titanium cage as a stand-alone device on biomechanical stability in the lumbosacral spine of canine cadavers. <i>Veterinary Journal</i> , 2017, 220, 17-23.	1.7	14
56	Degenerative lumbar disc disease: in vivo data support the rationale for the selection of appropriate animal models. , 2020, 39, 17-48.		14
57	Recognizing the ethical implications of stem cell research: A call for broadening the scope. <i>Stem Cell Reports</i> , 2021, 16, 1656-1661.	4.8	14
58	Injectable Hydrogels for Articular Cartilage and Nucleus Pulposus Repair: Status Quo and Prospects. <i>Tissue Engineering - Part A</i> , 2022, 28, 478-499.	3.1	13
59	Canine IL4-10 fusion protein provides disease modifying activity in a canine model of OA; an exploratory study. <i>PLoS ONE</i> , 2019, 14, e0219587.	2.5	12
60	Applicability of a Modified Rat Model of Acute Arthritis for Long-Term Testing of Drug Delivery Systems. <i>Pharmaceutics</i> , 2019, 11, 70.	4.5	12
61	Bone Morphogenetic Proteins for Nucleus Pulposus Regeneration. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2720.	4.1	12
62	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. <i>Veterinary Journal</i> , 2021, 269, 105605.	1.7	12
63	Novel type II collagen reporter mice: New tool for assessing collagen 2 \pm 1 expression in vivo and in vitro. <i>Developmental Dynamics</i> , 2011, 240, 663-673.	1.8	10
64	Dog as a Model for Osteoarthritis: The FGF4 Retrogene Insertion May Matter. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2550-2560.	2.3	10
65	Patient-specific 3D-printed shelf implant for the treatment of hip dysplasia: Anatomical and biomechanical outcomes in a canine model. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1154-1162.	2.3	10
66	Notochordal cell matrix: An inhibitor of neurite and blood vessel growth?. <i>Journal of Orthopaedic Research</i> , 2018, 36, 3188-3195.	2.3	8
67	Prospective Evaluation of Local Sustained Release of Celecoxib in Dogs with Low Back Pain. <i>Pharmaceutics</i> , 2021, 13, 1178.	4.5	8
68	Update on canine MSC markers. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2014, 85, 379-381.	1.5	7
69	<i>In Vitro</i> and <i>In Vivo</i> Correlation of Bone Morphogenetic Protein-2 Release Profiles from Complex Delivery Vehicles. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 379-390.	2.1	7
70	Lack of Ubiquitin Specific Protease 8 (USP8) Mutations in Canine Corticotroph Pituitary Adenomas. <i>PLoS ONE</i> , 2016, 11, e0169009.	2.5	7
71	A bovine nucleus pulposus explant culture model. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2089-2102.	2.3	7
72	The Effects of Naproxen on Chondrogenesis of Human Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2015, 21, 2136-2146.	3.1	6

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73	The Osteoinductive Effect of Controlled Bone Morphogenic Protein 2 Release Is Location Dependent. <i>Tissue Engineering - Part A</i> , 2019, 25, 193-202.	3.1	6
74	Comparing Hip Dysplasia in Dogs and Humans: A Review. <i>Frontiers in Veterinary Science</i> , 2021, 8, 791434.	2.2	6
75	Growth plate expression profiling: Large and small breed dogs provide new insights in endochondral bone formation. <i>Journal of Orthopaedic Research</i> , 2018, 36, 138-148.	2.3	5
76	Transformed Canine and Murine Mesenchymal Stem Cells as a Model for Sarcoma with Complex Genomics. <i>Cancers</i> , 2021, 13, 1126.	3.7	5
77	Selection of Highly Proliferative and Multipotent Meniscus Progenitors through Differential Adhesion to Fibronectin: A Novel Approach in Meniscus Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8614.	4.1	5
78	Folate Receptor Expression by Human Monocyte-Derived Macrophage Subtypes and Effects of Corticosteroids. <i>Cartilage</i> , 2022, 13, 194760352210814.	2.7	5
79	Temporary Segmental Distraction in a Dog with Degenerative Lumbosacral Stenosis. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2018, 31, 298-303.	0.5	4
80	Sequential Treatment of a Large Pituitary Corticotroph Neoplasm and Associated Neurological Signs in a Dog. <i>Journal of the American Animal Hospital Association</i> , 2019, 55, e55202.	1.1	4
81	Intra-Articular Slow-Release Triamcinolone Acetonide from Polyesteramide Microspheres as a Treatment for Osteoarthritis. <i>Pharmaceutics</i> , 2021, 13, 372.	4.5	4
82	Enhanced Extracellular Matrix Breakdown Characterizes the Early Distraction Phase of Canine Knee Joint Distraction. <i>Cartilage</i> , 2021, 13, 1654S-1664S.	2.7	4
83	Biomechanical effects of a titanium intervertebral cage as a stand-alone device, and in combination with locking plates in the canine caudal cervical spine. <i>Veterinary Surgery</i> , 2021, 50, 1087-1097.	1.0	4
84	Stem cells in the canine pituitary gland and in pituitary adenomas. <i>Veterinary Quarterly</i> , 2013, 33, 217-224.	6.7	3
85	Expression and clinical relevance of paired box protein 7 and sex determining region Y-box 2 in canine corticotroph pituitary adenomas. <i>Veterinary Journal</i> , 2015, 204, 315-321.	1.7	3
86	Increased bone morphogenetic protein 7 signalling in the kidneys of dogs affected with a congenital portosystemic shunt. <i>Veterinary Journal</i> , 2015, 204, 226-228.	1.7	3
87	The function of CD146 in human annulus fibrosus cells and mechanism of the regulation by TGF- β^2 . <i>Journal of Orthopaedic Research</i> , 2022, 40, 1661-1671.	2.3	3
88	Roles and responsibilities in stem cell research: a focus group study with stem cell researchers and patients. <i>Regenerative Medicine</i> , 2022, 17, 445-459.	1.7	3
89	A perspective on the ORS Spine Section initiative to develop a multi-species JOR Spine histopathology series. <i>JOR Spine</i> , 2021, 4, e1165.	3.2	2
90	Intervertebral disc degeneration in warmblood horses: Histological and biochemical characterization. <i>Veterinary Pathology</i> , 2022, 59, 284-298.	1.7	2

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91	Knee Joint Distraction in a Dog as Treatment for Severe Osteoarthritis. <i>VCOT Open</i> , 2022, 05, e11-e17.	0.2	2
92	Patient-specific 3D-printed shelf implant for the treatment of hip dysplasia tested in an experimental animal pilot in canines. <i>Scientific Reports</i> , 2022, 12, 3032.	3.3	2
93	Osteopetrosis in a Domestic Shorthair Cat. <i>VCOT Open</i> , 2021, 04, e79-e85.	0.2	1
94	The genomic profiling and MAMLD1 expression in human and canines with Cushing's disease. <i>BMC Endocrine Disorders</i> , 2021, 21, 185.	2.2	1
95	Sustained Intra-Articular Release and Biocompatibility of Tacrolimus (FK506) Loaded Monospheres Composed of [PDLA-PEG1000]-b-[PLLA] Multi-Block Copolymers in Healthy Horse Joints. <i>Pharmaceutics</i> , 2021, 13, 1438.	4.5	1
96	iPS Cells: Don't Forget about the Soft Impacts. <i>Studia Universitatis Babeş-Bolyai Bioethica</i> , 2021, 66, 26-27.	0.0	0