

Julio C Fernandes

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

5,737
citations

117571

34
h-index

74108

75
g-index

80
all docs

80
docs citations

80
times ranked

6964
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of cytokines in osteoarthritis pathophysiology. <i>Biorheology</i> , 2002, 39, 237-46.	1.2	713
2	Chitosan-DNA nanoparticles as non-viral vectors in gene therapy: strategies to improve transfection efficacy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2004, 57, 1-8.	2.0	486
3	Characterization of folate-chitosan-DNA nanoparticles for gene therapy. <i>Biomaterials</i> , 2006, 27, 2060-2065.	5.7	374
4	Mesenchymal stem cells, MG63 and HEK293 transfection using chitosan-DNA nanoparticles. <i>Biomaterials</i> , 2003, 24, 1255-1264.	5.7	351
5	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
6	Reduced progression of experimental osteoarthritis in vivo by selective inhibition of inducible nitric oxide synthase. <i>Arthritis and Rheumatism</i> , 1998, 41, 1275-1286.	6.7	318
7	Uptake mechanisms of non-viral gene delivery. <i>Journal of Controlled Release</i> , 2012, 158, 371-378.	4.8	254
8	In Vivo Transfer of Interleukin-1 Receptor Antagonist Gene in Osteoarthritic Rabbit Knee Joints. <i>American Journal of Pathology</i> , 1999, 154, 1159-1169.	1.9	218
9	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
10	Dexamethasone shifts bone marrow stromal cells from osteoblasts to adipocytes by C/EBPalpha promoter methylation. <i>Cell Death and Disease</i> , 2013, 4, e832-e832.	2.7	139
11	Prognostic Factors for Predicting Outcomes After Intramedullary Nailing of the Tibia. <i>Journal of Bone and Joint Surgery - Series A</i> , 2012, 94, 1786-1793.	1.4	115
12	Elucidation of molecular mechanisms underlying the protective effects of thymoquinone against rheumatoid arthritis. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 107-117.	1.2	113
13	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
14	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. <i>Arthritis and Rheumatism</i> , 2001, 44, 2320-2330.	6.7	100
15	Polycation-Based Gene Therapy: Current Knowledge and New Perspectives. <i>Current Gene Therapy</i> , 2011, 11, 288-306.	0.9	96
16	Synthetic and Natural Polycations for Gene Therapy: State of the Art and New Perspectives. <i>Current Gene Therapy</i> , 2006, 6, 59-71.	0.9	92
17	Bone-protective Effects of Nonviral Gene Therapy With Folate- α -Chitosan DNA Nanoparticle Containing Interleukin-1 Receptor Antagonist Gene in Rats With Adjuvant-induced Arthritis. <i>Molecular Therapy</i> , 2008, 16, 1243-1251.	3.7	88
18	Metalloproteinase and cytokine production by THP-1 macrophages following exposure to chitosan-DNA nanoparticles. <i>Biomaterials</i> , 2005, 26, 961-970.	5.7	85

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19	Validation of an advanced practice physiotherapy model of care in an orthopaedic outpatient clinic. <i>BMC Musculoskeletal Disorders</i> , 2013, 14, 162.	0.8	84
20	4-Hydroxynonenal induces apoptosis in human osteoarthritic chondrocytes: the protective role of glutathione-S-transferase. <i>Arthritis Research and Therapy</i> , 2008, 10, R107.	1.6	82
21	Production of lipid peroxidation products in osteoarthritic tissues: New evidence linking 4-hydroxynonenal to cartilage degradation. <i>Arthritis and Rheumatism</i> , 2006, 54, 271-281.	6.7	75
22	Synthesis and Characterization of Phosphorylcholine-Substituted Chitosans Soluble in Physiological pH Conditions. <i>Biomacromolecules</i> , 2006, 7, 3151-3156.	2.6	70
23	Trabecular Metal Used for Major Bone Loss in Acetabular Hip Revision. <i>Journal of Arthroplasty</i> , 2011, 26, 1245-1250.	1.5	68
24	Effects of tenidap on canine experimental osteoarthritis i. morphologic and metalloprotease analysis. <i>Arthritis and Rheumatism</i> , 1995, 38, 1290-1303.	6.7	58
25	The role of resolvin D1 in the regulation of inflammatory and catabolic mediators in osteoarthritis. <i>Inflammation Research</i> , 2016, 65, 635-645.	1.6	53
26	Differential regulation of cyclooxygenase-2 and inducible nitric oxide synthase by 4-hydroxynonenal in human osteoarthritic chondrocytes through ATF-2/CREB-1 transactivation and concomitant inhibition of NF- κ B signaling cascade. <i>Journal of Cellular Biochemistry</i> , 2007, 100, 1217-1231.	1.2	52
27	Low molecular weight chitosan conjugated with folate for siRNA delivery in vitro: optimization studies. <i>International Journal of Nanomedicine</i> , 2012, 7, 5833.	3.3	50
28	Alterations of metabolic activity in human osteoarthritic osteoblasts by lipid peroxidation end product 4-hydroxynonenal. <i>Arthritis Research and Therapy</i> , 2006, 8, R159.	1.6	49
29	Sorbitol-modified hyaluronic acid reduces oxidative stress, apoptosis and mediators of inflammation and catabolism in human osteoarthritic chondrocytes. <i>Inflammation Research</i> , 2014, 63, 691-701.	1.6	47
30	Inhibition of inducible nitric oxide synthase prevents lipid peroxidation in osteoarthritic chondrocytes. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 2256-2267.	1.2	45
31	Elucidating the Role of Protandim and 6-gingerol in Protection Against Osteoarthritis. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 1003-1013.	1.2	43
32	Progress and Prospects of Chitosan and Its Derivatives as Non-Viral Gene Vectors in Gene Therapy. <i>Current Gene Therapy</i> , 2009, 9, 495-502.	0.9	39
33	In vitro and in vivo assessment of the proresolutive and antiresorptive actions of resolvin D1: relevance to arthritis. <i>Arthritis Research and Therapy</i> , 2019, 21, 72.	1.6	39
34	Expression of ICAM-1 by osteoblasts in healthy individuals and in patients suffering from osteoarthritis and osteoporosis. <i>Bone</i> , 2004, 35, 463-470.	1.4	37
35	Endothelin-1 in osteoarthritic chondrocytes triggers nitric oxide production and upregulates collagenase production. <i>Arthritis Research</i> , 2005, 7, R324.	2.0	32
36	Perturbation of adhesion molecule-mediated chondrocyte-matrix interactions by 4-hydroxynonenal binding: implication in osteoarthritis pathogenesis. <i>Arthritis Research and Therapy</i> , 2010, 12, R201.	1.6	32

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37	An overview of the role of lipid peroxidation-derived 4-hydroxynonenal in osteoarthritis. <i>Inflammation Research</i> , 2017, 66, 637-651.	1.6	32
38	Fluid Lavage of Open Wounds (FLOW): A Multicenter, Blinded, Factorial Pilot Trial Comparing Alternative Irrigating Solutions and Pressures in Patients With Open Fractures. <i>Journal of Trauma</i> , 2011, 71, 596-606.	2.3	31
39	Ramipril attenuates lipid peroxidation and cardiac fibrosis in an experimental model of rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2012, 14, R223.	1.6	29
40	Effects of tenidap on the progression of osteoarthritic lesions in a canine experimental model. Suppression of metalloprotease and interleukin-1 activity. <i>Arthritis and Rheumatism</i> , 1997, 40, 284-294.	6.7	28
41	Diethylaminoethyl- chitosan as an efficient carrier for siRNA delivery: Improving the condensation process and the nanoparticles properties. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 186-197.	3.6	27
42	Pluronic F-127 as a Cell Carrier for Bone Tissue Engineering. <i>Journal of Biomaterials Applications</i> , 2009, 24, 275-287.	1.2	24
43	Linear polyethylenimine produced by partial acid hydrolysis of poly(2-ethyl-2-oxazoline) for DNA and siRNA delivery in vitro. <i>International Journal of Nanomedicine</i> , 2013, 8, 4091.	3.3	23
44	Simulation of acoustic guided wave propagation in cortical bone using a semi-analytical finite element method. <i>Journal of the Acoustical Society of America</i> , 2017, 141, 2538-2547.	0.5	21
45	New Evidence Implicating 4-hydroxynonenal in the Pathogenesis of Osteoarthritis In Vivo. <i>Arthritis and Rheumatology</i> , 2014, 66, 2461-2471.	2.9	20
46	Involvement of ICAM-1 in bone metabolism: a potential target in the treatment of bone diseases?. <i>Expert Opinion on Biological Therapy</i> , 2005, 5, 313-320.	1.4	18
47	Hydrodynamic Delivery of Chitosan-Folate-DNA Nanoparticles in Rats with Adjuvant-Induced Arthritis. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-9.	3.0	18
48	Gene Therapy for Osteoarthritis. <i>Clinical Orthopaedics and Related Research</i> , 2000, 379, S262-S272.	0.7	17
49	<p>>Evidence Supporting the Safety of Pegylated Diethylaminoethyl-Chitosan Polymer as a Nanovector for Gene Therapy Applications</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 6183-6200.	3.3	17
50	Economic Evaluation of Reamed versus Unreamed Intramedullary Nailing in Patients with Closed and Open Tibial Fractures: Results from the Study to Prospectively Evaluate Reamed Intramedullary Nails in Patients with Tibial Fractures (SPRINT). <i>Value in Health</i> , 2011, 14, 450-457.	0.1	16
51	Nuclear receptor retinoid-related orphan receptor $\hat{\pm}1$ modulates the metabolic activity of human osteoblasts. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 2160-2169.	1.2	16
52	Treatment of Prosthetic Joint Infections: Validation of a Surgical Algorithm and Proposal of a Simplified Alternative. <i>Journal of Arthroplasty</i> , 2013, 28, 395-400.	1.5	16
53	Comparison of direct health care costs related to the pharmacological treatment of osteoporosis and to the management of osteoporotic fractures among compliant and noncompliant users of alendronate and risedronate: a population-based study. <i>Osteoporosis International</i> , 2009, 20, 1571-1581.	1.3	15
54	Polyethylenimine600- β -cyclodextrin: a promising nanopolymer for nonviral gene delivery of primary mesenchymal stem cells. <i>International Journal of Nanomedicine</i> , 2013, 8, 1935.	3.3	15

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55	Persistence and compliance to osteoporosis therapy in a fracture liaison service: a prospective cohort study. <i>Archives of Osteoporosis</i> , 2019, 14, 87.	1.0	15
56	Chitosan-Based Nanogels: Synthesis and Toxicity Profile for Drug Delivery to Articular Joints. <i>Nanomaterials</i> , 2022, 12, 1337.	1.9	15
57	siRNA therapy for cancer and non-lethal diseases such as arthritis and osteoporosis. <i>Expert Opinion on Biological Therapy</i> , 2011, 11, 5-16.	1.4	14
58	Efficient Nonviral Gene Therapy Using Folate-Targeted Chitosan-DNA Nanoparticles In Vitro. <i>ISRN Pharmaceutics</i> , 2012, 2012, 1-9.	1.0	14
59	Incidence of symptomatic venous thromboembolism in 2372 knee and hip replacement patients after discharge: data from a thromboprophylaxis registry in Montreal, Canada. <i>Vascular Health and Risk Management</i> , 2018, Volume 14, 81-89.	1.0	13
60	Performance of a Fracture Liaison Service in an Orthopaedic Setting. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, 486-494.	1.4	12
61	The pathophysiology of immunoporosis: innovative therapeutic targets. <i>Inflammation Research</i> , 2021, 70, 859-875.	1.6	12
62	An active role for soluble and membrane intercellular adhesion molecule-1 in osteoclast activity in vitro. <i>Journal of Bone and Mineral Metabolism</i> , 2008, 26, 543-550.	1.3	10
63	Patient Healthcare Trajectory and its Impact on the Cost-Effectiveness of Fracture Liaison Services. <i>Journal of Bone and Mineral Research</i> , 2020, 36, 459-468.	3.1	10
64	Advanced practice physiotherapy for adults with spinal pain: a systematic review with meta-analysis. <i>European Spine Journal</i> , 2021, 30, 990-1003.	1.0	9
65	Polymeric Systems as Nanodevices for siRNA Delivery. <i>Current Gene Therapy</i> , 2013, 13, 358-369.	0.9	9
66	Metabolic activity of osteoblasts from periprosthetic trabecular bone in failed total hip arthroplasties and osteoarthritis as markers of osteolysis and loosening. <i>Journal of Rheumatology</i> , 2002, 29, 1437-45.	1.0	9
67	Outcomes assessment in the SPRINT multicenter tibial fracture trial: Adjudication committee size has trivial effect on trial results. <i>Journal of Clinical Epidemiology</i> , 2011, 64, 1023-1033.	2.4	8
68	Rationale, study design, and descriptive data of the Lucky Bone [®] , [†] Fracture Liaison Service. <i>Archives of Osteoporosis</i> , 2019, 14, 19.	1.0	8
69	Chitosan Nanoparticles for Non-Viral Gene Therapy. <i>ACS Symposium Series</i> , 2006, , 177-200.	0.5	7
70	Economic evaluation of advanced practice physiotherapy models of care: a systematic review with meta-analyses. <i>BMC Health Services Research</i> , 2021, 21, 1214.	0.9	7
71	Use of IMMPACT Recommendations to Explore Pain Phenotypes in People with Knee Osteoarthritis. <i>Pain Medicine</i> , 2022, 23, 1708-1716.	0.9	6
72	A novel in vitro system for intracellular delivery of nonviral DNA. <i>Journal of Orthopaedic Translation</i> , 2014, 2, 157-164.	1.9	4

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73	A lateral approach defect closure technique with deep fascia flap for valgus knee TKA. Journal of Orthopaedic Surgery and Research, 2015, 10, 173.	0.9	4
74	Gene therapy of arthritis and orthopaedic disorders: current experimental approaches in China and in Canada. Expert Opinion on Biological Therapy, 2008, 8, 1337-1346.	1.4	2
75	Finite element analysis of an acetabular trial implant. , 2010, 2010, 3930-3.		1
76	Trajectories of Follow-up Compliance in a Fracture Liaison Service and Their Predictors: A Longitudinal Group-Based Trajectory Analysis. Health Services Research and Managerial Epidemiology, 2021, 8, 233339282110470.	0.5	1
77	Response to 'Ramipril attenuates lipid peroxidation and cardiac fibrosis in an experimental model of rheumatoid arthritis' - authors' reply. Arthritis Research and Therapy, 2013, 15, 406.	1.6	0
78	Single session compared with multiple sessions of education and exercise for older adults with spinal pain in an advanced practice physiotherapy model of care: protocol for a randomised controlled trial. BMJ Open, 2021, 11, e053004.	0.8	0