

Magali Cucchiarini

List of Publications by Year in descending order

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172
papers

5,960
citations

66343

42
h-index

110387

64
g-index

175
all docs

175
docs citations

175
times ranked

5248
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue engineering for articular cartilage repair – the state of the art. , 2013, 25, 248-267.		305
2	Mesenchymal stem cells for the treatment of cartilage lesions: from preclinical findings to clinical application in orthopaedics. Knee Surgery, Sports Traumatology, Arthroscopy, 2013, 21, 1717-1729.	4.2	199
3	Improved Tissue Repair in Articular Cartilage Defects in Vivo by rAAV-Mediated Overexpression of Human Fibroblast Growth Factor 2. Molecular Therapy, 2005, 12, 229-238.	8.2	152
4	Restoration of the extracellular matrix in human osteoarthritic articular cartilage by overexpression of the transcription factorSOX9. Arthritis and Rheumatism, 2007, 56, 158-167.	6.7	143
5	Recombinant Adeno-Associated Virus Vectors Efficiently and Persistently Transduce Chondrocytes in Normal and Osteoarthritic Human Articular Cartilage. Human Gene Therapy, 2003, 14, 393-402.	2.7	135
6	Small Subchondral Drill Holes Improve Marrow Stimulation of Articular Cartilage Defects. American Journal of Sports Medicine, 2014, 42, 2741-2750.	4.2	119
7	Transforming Growth Factor Beta-Releasing Scaffolds for Cartilage Tissue Engineering. Tissue Engineering - Part B: Reviews, 2014, 20, 106-125.	4.8	114
8	Gene therapy for cartilage defects. Journal of Gene Medicine, 2005, 7, 1495-1509.	2.8	112
9	Local stimulation of articular cartilage repair by transplantation of encapsulated chondrocytes overexpressing human fibroblast growth factor 2 (FGF-2)in vivo. Journal of Gene Medicine, 2006, 8, 100-111.	2.8	109
10	Effect of Subchondral Drilling on the Microarchitecture of Subchondral Bone. American Journal of Sports Medicine, 2012, 40, 828-836.	4.2	109
11	SOX9 gene transfer via safe, stable, replication-defective recombinant adeno-associated virus vectors as a novel, powerful tool to enhance the chondrogenic potential of human mesenchymal stem cells. Stem Cell Research and Therapy, 2012, 3, 22.	5.5	108
12	Thermosensitive Hydrogel Based on PEO–PPO–PEO Poloxamers for a Controlled In Situ Release of Recombinant Adeno-Associated Viral Vectors for Effective Gene Therapy of Cartilage Defects. Advanced Materials, 2020, 32, e1906508.	21.0	108
13	A review of dental composites: Challenges, chemistry aspects, filler influences, and future insights. Composites Part B: Engineering, 2021, 216, 108852.	12.0	97
14	Biomaterial-guided delivery of gene vectors for targeted articular cartilage repair. Nature Reviews Rheumatology, 2019, 15, 18-29.	8.0	92
15	The Use of Nanomaterials in Tissue Engineering for Cartilage Regeneration; Current Approaches and Future Perspectives. International Journal of Molecular Sciences, 2020, 21, 536.	4.1	86
16	Metabolic Activities and Chondrogenic Differentiation of Human Mesenchymal Stem Cells Following Recombinant Adeno-Associated Virus–Mediated Gene Transfer and Overexpression of Fibroblast Growth Factor 2. Tissue Engineering - Part A, 2011, 17, 1921-1933.	3.1	82
17	Failed cartilage repair for early osteoarthritis defects: a biochemical, histological and immunohistochemical analysis of the repair tissue after treatment with marrow-stimulation techniques. Knee Surgery, Sports Traumatology, Arthroscopy, 2012, 20, 2315-2324.	4.2	82
18	Direct rAAV SOX9 administration for durable articular cartilage repair with delayed terminal differentiation and hypertrophy in vivo. Journal of Molecular Medicine, 2013, 91, 625-636.	3.9	80

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19	Sustained transgene expression in cartilage defects in vivo after transplantation of articular chondrocytes modified by lipid-mediated gene transfer in a gel suspension delivery system. <i>Journal of Gene Medicine</i> , 2003, 5, 502-509.	2.8	77
20	Autologous Matrix-Induced Chondrogenesis: A Systematic Review of the Clinical Evidence. <i>American Journal of Sports Medicine</i> , 2019, 47, 222-231.	4.2	77
21	A Comprehensive Review of Detection Methods for SARS-CoV-2. <i>Microorganisms</i> , 2021, 9, 232.	3.6	74
22	Basic science of osteoarthritis. <i>Journal of Experimental Orthopaedics</i> , 2016, 3, 22.	1.8	69
23	Small-Diameter Awls Improve Articular Cartilage Repair After Microfracture Treatment in a Translational Animal Model. <i>American Journal of Sports Medicine</i> , 2016, 44, 209-219.	4.2	67
24	Remodelling of human osteoarthritic cartilage by FGF-2, alone or combined with Sox9 via rAAV gene transfer. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2476-2488.	3.6	65
25	Current perspectives in stem cell research for knee cartilage repair. <i>Stem Cells and Cloning: Advances and Applications</i> , 2014, 7, 1.	2.3	64
26	Phytochemical and nutra-pharmaceutical attributes of <i>Mentha</i> spp.: A comprehensive review. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103106.	4.9	64
27	Secretome and Extracellular Vesicles as New Biological Therapies for Knee Osteoarthritis: A Systematic Review. <i>Journal of Clinical Medicine</i> , 2019, 8, 1867.	2.4	62
28	Natural and Synthetic Biinks for 3D Bioprinting. <i>Advanced NanoBiomed Research</i> , 2021, 1, 2000097.	3.6	60
29	PEO-PPO-PEO Tri-Block Copolymers for Gene Delivery Applications in Human Regenerative Medicine: An Overview. <i>International Journal of Molecular Sciences</i> , 2018, 19, 775.	4.1	59
30	Acceleration of articular cartilage repair by combined gene transfer of human insulin-like growth factor I and fibroblast growth factor-2 in vivo. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2010, 130, 1311-1322.	2.4	58
31	Transplanted articular chondrocytes co-overexpressing IGF-I and FGF-2 stimulate cartilage repair in vivo. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 2119-2130.	4.2	57
32	Benefits of Recombinant Adeno-Associated Virus (rAAV)-Mediated Insulinlike Growth Factor I (IGF-I) Overexpression for the Long-Term Reconstruction of Human Osteoarthritic Cartilage by Modulation of the IGF-I Axis. <i>Molecular Medicine</i> , 2012, 18, 346-358.	4.4	56
33	Bone Marrow Aspirate Concentrate-Enhanced Marrow Stimulation of Chondral Defects. <i>Stem Cells International</i> , 2017, 2017, 1-13.	2.5	56
34	Nanotechnology in Bladder Cancer: Diagnosis and Treatment. <i>Cancers</i> , 2021, 13, 2214.	3.7	56
35	rAAV-mediated overexpression of TGF- β 2 stably restructures human osteoarthritic articular cartilage in situ. <i>Journal of Translational Medicine</i> , 2013, 11, 211.	4.4	51
36	PEO-PPO-PEO micelles as effective rAAV-mediated gene delivery systems to target human mesenchymal stem cells without altering their differentiation potency. <i>Acta Biomaterialia</i> , 2015, 27, 42-52.	8.3	50

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37	Improved repair of chondral and osteochondral defects in the ovine trochlea compared with the medial condyle. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1772-1779.	2.3	49
38	Multi-Functionalized Nanomaterials and Nanoparticles for Diagnosis and Treatment of Retinoblastoma. <i>Biosensors</i> , 2021, 11, 97.	4.7	49
39	Gene Therapy for Cartilage Repair. <i>Cartilage</i> , 2011, 2, 201-225.	2.7	48
40	Determination of the Chondrogenic Differentiation Processes in Human Bone Marrow-Derived Mesenchymal Stem Cells Genetically Modified to Overexpress Transforming Growth Factor- β^2 via Recombinant Adeno-Associated Viral Vectors. <i>Human Gene Therapy</i> , 2014, 25, 1050-1060.	2.7	47
41	Effective and durable genetic modification of human mesenchymal stem cells via controlled release of rAAV vectors from self-assembling peptide hydrogels with a maintained differentiation potency. <i>Acta Biomaterialia</i> , 2015, 18, 118-127.	8.3	47
42	Hydrogel-Guided, rAAV-Mediated IGF-1 Overexpression Enables Long-Term Cartilage Repair and Protection against Perifocal Osteoarthritis in a Large-Animal Full-Thickness Chondral Defect Model at One Year In Vivo. <i>Advanced Materials</i> , 2021, 33, e2008451.	21.0	47
43	DNA Based and Stimuli-Responsive Smart Nanocarrier for Diagnosis and Treatment of Cancer: Applications and Challenges. <i>Cancers</i> , 2021, 13, 3396.	3.7	46
44	Direct FGF-2 Gene Transfer via Recombinant Adeno-Associated Virus Vectors Stimulates Cell Proliferation, Collagen Production, and the Repair of Experimental Lesions in the Human ACL. <i>American Journal of Sports Medicine</i> , 2013, 41, 194-202.	4.2	44
45	Gene therapy for human osteoarthritis: principles and clinical translation. <i>Expert Opinion on Biological Therapy</i> , 2016, 16, 331-346.	3.1	44
46	Advances and challenges in gene-based approaches for osteoarthritis. <i>Journal of Gene Medicine</i> , 2013, 15, 343-355.	2.8	43
47	Current Progress in Stem Cell-Based Gene Therapy for Articular Cartilage Repair. <i>Current Stem Cell Research and Therapy</i> , 2015, 10, 121-131.	1.3	43
48	Clinical potential and challenges of using genetically modified cells for articular cartilage repair. <i>Croatian Medical Journal</i> , 2011, 52, 245-261.	0.7	42
49	Influence of insulin-like growth factor I overexpression via recombinant adeno-associated vector gene transfer upon the biological activities and differentiation potential of human bone marrow-derived mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2014, 5, 103.	5.5	42
50	An overview of thermal necrosis: present and future. <i>Current Medical Research and Opinion</i> , 2019, 35, 1555-1562.	1.9	41
51	Controlled release strategies for rAAV-mediated gene delivery. <i>Acta Biomaterialia</i> , 2016, 29, 1-10.	8.3	40
52	Synthesis, characterization, toxicity and morphology assessments of newly prepared microemulsion systems for delivery of valproic acid. <i>Journal of Molecular Liquids</i> , 2021, 338, 116625.	4.9	40
53	Menisci are Efficiently Transduced by Recombinant Adeno-Associated virus Vectors in Vitro and in Vivo. <i>American Journal of Sports Medicine</i> , 2004, 32, 1860-1865.	4.2	39
54	Hydrogel-Based Controlled Delivery Systems for Articular Cartilage Repair. <i>BioMed Research International</i> , 2016, 2016, 1-12.	1.9	39

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55	Application of Alginate Hydrogels for Next-Generation Articular Cartilage Regeneration. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1147.	4.1	39
56	PEO-PPO-PEO Carriers for rAAV-Mediated Transduction of Human Articular Chondrocytes in Vitro and in a Human Osteochondral Defect Model. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20600-20613.	8.0	38
57	Subchondral drilling for articular cartilage repair: a systematic review of translational research. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	37
58	Supramolecular Cyclodextrin-Based Hydrogels for Controlled Gene Delivery. <i>Polymers</i> , 2019, 11, 514.	4.5	37
59	Pluronic F127/Doxorubicin microemulsions: Preparation, characterization, and toxicity evaluations. <i>Journal of Molecular Liquids</i> , 2022, 345, 117028.	4.9	37
60	Effective, safe nonviral gene transfer to preserve the chondrogenic differentiation potential of human mesenchymal stem cells. <i>Journal of Gene Medicine</i> , 2012, 14, 501-511.	2.8	35
61	Effect of open wedge high tibial osteotomy on the lateral tibiofemoral compartment in sheep. Part III: analysis of the microstructure of the subchondral bone and correlations with the articular cartilage and meniscus. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015, 23, 2704-2714.	4.2	35
62	<i>In Vitro</i> and <i>In Vivo</i> Characterization of Nonbiomedical- and Biomedical-Grade Alginates for Articular Chondrocyte Transplantation. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 829-842.	2.1	33
63	Effect of open wedge high tibial osteotomy on the lateral tibiofemoral compartment in sheep. Part II: standard and overcorrection do not cause articular cartilage degeneration. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2014, 22, 1666-1677.	4.2	33
64	Supramolecular polypseudorotaxane gels for controlled delivery of rAAV vectors in human mesenchymal stem cells for regenerative medicine. <i>International Journal of Pharmaceutics</i> , 2017, 531, 492-503.	5.2	33
65	rAAV-mediated overexpression of TGF- β via vector delivery in polymeric micelles stimulates the biological and reparative activities of human articular chondrocytes in vitro and in a human osteochondral defect model. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 6985-6996.	6.7	33
66	Effect of open wedge high tibial osteotomy on the lateral compartment in sheep. Part I: analysis of the lateral meniscus. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2013, 21, 39-48.	4.2	32
67	Nanomaterials for the Diagnosis and Treatment of Urinary Tract Infections. <i>Nanomaterials</i> , 2021, 11, 546.	4.1	32
68	Reduction of Sample Size Requirements by Bilateral Versus Unilateral Research Designs in Animal Models for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 885-891.	2.1	31
69	Large animal models in experimental knee sports surgery: focus on clinical translation. <i>Journal of Experimental Orthopaedics</i> , 2015, 2, 9.	1.8	31
70	Topographic modeling of early human osteoarthritis in sheep. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	31
71	Effects of TGF- β Overexpression via rAAV Gene Transfer on the Early Repair Processes in an Osteochondral Defect Model in Minipigs. <i>American Journal of Sports Medicine</i> , 2018, 46, 1987-1996.	4.2	30
72	Nanomaterials for the Diagnosis and Treatment of Inflammatory Arthritis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3092.	4.1	30

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73	Effective Remodelling of Human Osteoarthritic Cartilage by <i>sox9</i> Gene Transfer and Overexpression upon Delivery of rAAV Vectors in Polymeric Micelles. <i>Molecular Pharmaceutics</i> , 2018, 15, 2816-2826.	4.6	29
74	Orthopaedic regenerative tissue engineering en route to the holy grail: disequilibrium between the demand and the supply in the operating room. <i>Journal of Experimental Orthopaedics</i> , 2018, 5, 14.	1.8	28
75	Application of Nanotechnology for Sensitive Detection of Low-Abundance Single-Nucleotide Variations in Genomic DNA: A Review. <i>Nanomaterials</i> , 2021, 11, 1384.	4.1	27
76	Human gene therapy: novel approaches to improve the current gene delivery systems. <i>Discovery Medicine</i> , 2016, 21, 495-506.	0.5	27
77	Single-cell RNA-seq reveals novel mitochondria-related musculoskeletal cell populations during adult axolotl limb regeneration process. <i>Cell Death and Differentiation</i> , 2021, 28, 1110-1125.	11.2	26
78	Analysis of Novel Nonviral Gene Transfer Systems for Gene Delivery to Cells of the Musculoskeletal System. <i>Molecular Biotechnology</i> , 2008, 38, 137-144.	2.4	25
79	Hydrogels for precision meniscus tissue engineering: a comprehensive review. <i>Connective Tissue Research</i> , 2017, 58, 317-328.	2.3	25
80	Injectable Systems for Intra-Articular Delivery of Mesenchymal Stromal Cells for Cartilage Treatment: A Systematic Review of Preclinical and Clinical Evidence. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3322.	4.1	25
81	Translational applications of photopolymerizable hydrogels for cartilage repair. <i>Journal of Experimental Orthopaedics</i> , 2019, 6, 47.	1.8	25
82	Overexpression of TGF- β 2 via rAAV-Mediated Gene Transfer Promotes the Healing of Human Meniscal Lesions Ex Vivo on Explanted Menisci. <i>American Journal of Sports Medicine</i> , 2015, 43, 1197-1205.	4.2	24
83	Comprehensive analysis of translational osteochondral repair: Focus on the histological assessment. <i>Progress in Histochemistry and Cytochemistry</i> , 2015, 50, 19-36.	5.1	24
84	Role of the Subchondral Bone in Articular Cartilage Degeneration and Repair. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2016, 24, e45-e46.	2.5	24
85	Co-overexpression of TGF- β 2 and SOX9 via rAAV gene transfer modulates the metabolic and chondrogenic activities of human bone marrow-derived mesenchymal stem cells. <i>Stem Cell Research and Therapy</i> , 2016, 7, 20.	5.5	24
86	Nanodiagnosis and Nanotreatment of Cardiovascular Diseases: An Overview. <i>Chemosensors</i> , 2021, 9, 67.	3.6	24
87	Triblock Copolymer Bioinks in Hydrogel Three-Dimensional Printing for Regenerative Medicine: A Focus on Pluronic F127. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 451-463.	4.8	24
88	Adapted chondrogenic differentiation of human mesenchymal stem cells via controlled release of TGF- β 1 from poly(ethylene oxide)-terephthalate/poly(butylene terephthalate) multiblock scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 371-383.	4.0	23
89	rAAV-mediated combined gene transfer and overexpression of TGF- β 2 and SOX9 remodels human osteoarthritic articular cartilage. <i>Journal of Orthopaedic Research</i> , 2016, 34, 2181-2190.	2.3	23
90	Design of Mannose-Coated Rifampicin nanoparticles modulating the immune response and Rifampicin induced hepatotoxicity with improved oral drug delivery. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103321.	4.9	23

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91	The Potential Application of Magnetic Nanoparticles for Liver Fibrosis Theranostics. <i>Frontiers in Chemistry</i> , 2021, 9, 674786.	3.6	22
92	Analysis of spatial osteochondral heterogeneity in advanced knee osteoarthritis exposes influence of joint alignment. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	21
93	Evaluation of nonbiomedical and biomedical grade alginates for the transplantation of genetically modified articular chondrocytes to cartilage defects in a large animal model <i>in vivo</i> . <i>Journal of Gene Medicine</i> , 2011, 13, 230-242.	2.8	20
94	Tissue-Engineering Strategies to Repair Joint Tissue in Osteoarthritis: Nonviral Gene-Transfer Approaches. <i>Current Rheumatology Reports</i> , 2014, 16, 450.	4.7	20
95	Chondrogenic Differentiation Processes in Human Bone Marrow Aspirates upon rAAV-Mediated Gene Transfer and Overexpression of the Insulin-Like Growth Factor I. <i>Tissue Engineering - Part A</i> , 2015, 21, 2460-2471.	3.1	20
96	Early loss of subchondral bone following microfracture is counteracted by bone marrow aspirate in a translational model of osteochondral repair. <i>Scientific Reports</i> , 2017, 7, 45189.	3.3	20
97	Human mesenchymal stem cells overexpressing therapeutic genes: From basic science to clinical applications for articular cartilage repair. <i>Bio-Medical Materials and Engineering</i> , 2012, 22, 197-208.	0.6	19
98	Current Trends in Viral Gene Therapy for Human Orthopaedic Regenerative Medicine. <i>Tissue Engineering and Regenerative Medicine</i> , 2019, 16, 345-355.	3.7	19
99	Improved Chondrogenic Differentiation of rAAV SOX9-Modified Human MSCs Seeded in Fibrin-Polyurethane Scaffolds in a Hydrodynamic Environment. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2635.	4.1	18
100	Cells, soluble factors and matrix harmonically play the concert of allograft integration. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2019, 27, 1717-1725.	4.2	18
101	TGF β ² gene transfer and overexpression <i>via</i> rAAV vectors stimulates chondrogenic events in human bone marrow aspirates. <i>Journal of Cellular and Molecular Medicine</i> , 2016, 20, 430-440.	3.6	16
102	Sustained spatiotemporal release of TGF β ¹ confers enhanced very early chondrogenic differentiation during osteochondral repair in specific topographic patterns. <i>FASEB Journal</i> , 2018, 32, 5298-5311.	0.5	16
103	Scaffold-Mediated Gene Delivery for Osteochondral Repair. <i>Pharmaceutics</i> , 2020, 12, 930.	4.5	16
104	Curcumin Nanocrystals: Production, Physicochemical Assessment, and In Vitro Evaluation of the Antimicrobial Effects against Bacterial Loading of the Implant Fixture. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8356.	2.5	16
105	Comparative anatomy and morphology of the knee in translational models for articular cartilage disorders. Part II: Small animals. <i>Annals of Anatomy</i> , 2021, 234, 151630.	1.9	16
106	Is Extracellular Vesicle-Based Therapy the Next Answer for Cartilage Regeneration?. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 645039.	4.1	16
107	Effects of solid acellular type-I/III collagen biomaterials on in vitro and in vivo chondrogenesis of mesenchymal stem cells. <i>Expert Review of Medical Devices</i> , 2017, 14, 717-732.	2.8	15
108	rAAV-Mediated Overexpression of SOX9 and TGF β ² via Carbon Dot-Guided Vector Delivery Enhances the Biological Activities in Human Bone Marrow-Derived Mesenchymal Stromal Cells. <i>Nanomaterials</i> , 2020, 10, 855.	4.1	15

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109	Enhanced Chondrogenic Differentiation Activities in Human Bone Marrow Aspirates via <i>sox9</i> Overexpression Mediated by pNaSS-Grafted PCL Film-Guided rAAV Gene Transfer. <i>Pharmaceutics</i> , 2020, 12, 280.	4.5	15
110	Controlled Release of rAAV Vectors from APMA-Functionalized Contact Lenses for Corneal Gene Therapy. <i>Pharmaceutics</i> , 2020, 12, 335.	4.5	15
111	rAAV-Mediated Human FGF-2 Gene Therapy Enhances Osteochondral Repair in a Clinically Relevant Large Animal Model Over Time In Vivo. <i>American Journal of Sports Medicine</i> , 2021, 49, 958-969.	4.2	15
112	Biomedical-grade, high mannuronic acid content (BioMVM) alginate enhances the proteoglycan production of primary human meniscal fibrochondrocytes in a 3-D microenvironment. <i>Scientific Reports</i> , 2016, 6, 28170.	3.3	14
113	Use of Tissue Engineering Strategies to Repair Joint Tissues in Osteoarthritis: Viral Gene Transfer Approaches. <i>Current Rheumatology Reports</i> , 2014, 16, 449.	4.7	13
114	rAAV-Mediated <i>sox9</i> Overexpression Improves the Repair of Osteochondral Defects in a Clinically Relevant Large Animal Model Over Time In Vivo and Reduces Perifocal Osteoarthritic Changes. <i>American Journal of Sports Medicine</i> , 2021, 49, 3696-3707.	4.2	13
115	New trends in articular cartilage repair. <i>Journal of Experimental Orthopaedics</i> , 2015, 2, 8.	1.8	12
116	Chondrogenic Differentiation Processes in Human Bone-Marrow Aspirates Seeded in Three-Dimensional-Woven Poly(ϵ -Caprolactone) Scaffolds Enhanced by Recombinant Adeno-Associated Virus-Mediated SOX9 Gene Transfer. <i>Human Gene Therapy</i> , 2018, 29, 1277-1286.	2.7	12
117	Biomaterial-Guided Recombinant Adeno-associated Virus Delivery from Poly(Sodium Styrene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Engineering - Part A, 2020, 26, 450-459.	3.1	12
118	Small-Diameter Subchondral Drilling Improves DNA and Proteoglycan Content of the Cartilaginous Repair Tissue in a Large Animal Model of a Full-Thickness Chondral Defect. <i>Journal of Clinical Medicine</i> , 2020, 9, 1903.	2.4	12
119	Nonviral gene transfer to human meniscal cells. Part I: transfection analyses and cell transplantation to meniscus explants. <i>International Orthopaedics</i> , 2014, 38, 1923-1930.	1.9	11
120	Recent tissue engineering-based advances for effective rAAV-mediated gene transfer in the musculoskeletal system. <i>Bioengineered</i> , 2016, 7, 175-188.	3.2	11
121	A novel algorithm for a precise analysis of subchondral bone alterations. <i>Scientific Reports</i> , 2016, 6, 32982.	3.3	11
122	Genetic Modification of Human Peripheral Blood Aspirates Using Recombinant Adeno-Associated Viral Vectors for Articular Cartilage Repair with a Focus on Chondrogenic Transforming Growth Factor- β Gene Delivery. <i>Stem Cells Translational Medicine</i> , 2017, 6, 249-260.	3.3	11
123	Cyst formation in the subchondral bone following cartilage repair. <i>Clinical and Translational Medicine</i> , 2020, 10, e248.	4.0	11
124	Biomaterials and Gene Therapy: A Smart Combination for MSC Musculoskeletal Engineering. <i>Current Stem Cell Research and Therapy</i> , 2019, 14, 337-343.	1.3	11
125	Genetic modification of mesenchymal stem cells for cartilage repair. <i>Bio-Medical Materials and Engineering</i> , 2010, 20, 135-143.	0.6	10
126	Nonviral gene transfer into human meniscal cells. Part II: effect of three-dimensional environment and overexpression of human fibroblast growth factor 2. <i>International Orthopaedics</i> , 2014, 38, 1931-1936.	1.9	10

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127	Therapeutic Delivery of rAAV sox9 via Polymeric Micelles Counteracts the Effects of Osteoarthritis-Associated Inflammatory Cytokines in Human Articular Chondrocytes. <i>Nanomaterials</i> , 2020, 10, 1238.	4.1	10
128	Quantifying the Human Subchondral Trabecular Bone Microstructure in Osteoarthritis with Clinical CT. <i>Advanced Science</i> , 2022, 9, .	11.2	10
129	Enhanced expression of the central survival of motor neuron (<scp>SMN</scp>) protein during the pathogenesis of osteoarthritis. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 115-124.	3.6	9
130	Peripheral blood aspirates overexpressing IGF–1 via rAAV gene transfer undergo enhanced chondrogenic differentiation processes. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 2748-2758.	3.6	9
131	Impact of mechanical stimulation on the chondrogenic processes in human bone marrow aspirates modified to overexpress sox9 via rAAV vectors. <i>Journal of Experimental Orthopaedics</i> , 2017, 4, 22.	1.8	9
132	Tissue Regeneration through Cyber–Physical Systems and Microbots. <i>Advanced Functional Materials</i> , 2021, 31, 2009663.	14.9	9
133	The potential of gene transfer for the treatment of osteoarthritis. <i>Regenerative Medicine</i> , 2014, 9, 5-8.	1.7	8
134	Effects of rAAV-mediated FGF-2 gene transfer and overexpression upon the chondrogenic differentiation processes in human bone marrow aspirates. <i>Journal of Experimental Orthopaedics</i> , 2016, 3, 16.	1.8	8
135	Effects of rAAV-Mediated sox9 Overexpression on the Biological Activities of Human Osteoarthritic Articular Chondrocytes in Their Intrinsic Three-Dimensional Environment. <i>Journal of Clinical Medicine</i> , 2019, 8, 1637.	2.4	8
136	Therapeutic Effects of rAAV-Mediated Concomittant Gene Transfer and Overexpression of TGF- β 2 and IGF-I on the Chondrogenesis of Human Bone-Marrow-Derived Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2591.	4.1	8
137	Mitochondrial Genome Editing to Treat Human Osteoarthritis–A Narrative Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1467.	4.1	8
138	Gene- and Stem Cell-Based Approaches to Regulate Hypertrophic Differentiation in Articular Cartilage Disorders. <i>Stem Cells and Development</i> , 2016, 25, 1495-1512.	2.1	7
139	Advances in gene therapy for cartilage repair. <i>Annals of Joint</i> , 2018, 3, 97-97.	1.0	7
140	Smart and Controllable rAAV Gene Delivery Carriers in Progenitor Cells for Human Musculoskeletal Regenerative Medicine with a Focus on the Articular Cartilage. <i>Current Gene Therapy</i> , 2017, 17, 127-138.	2.0	7
141	Axial alignment is a critical regulator of knee osteoarthritis. <i>Science Translational Medicine</i> , 2022, 14, eabn0179.	12.4	7
142	Enamel matrix derivative inhibits proteoglycan production and articular cartilage repair, delays the restoration of the subchondral bone and induces changes of the synovial membrane in a lapine osteochondral defect model in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 41-49.	2.7	6
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