Ana Rey-Rico

List of Publications by Year
in descending order

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76 papers	2,156 citations	186209 28 h-index	254106 43 g-index
77 all docs	77 docs citations	77 times ranked	2685 citing authors

#	Article	IF	Citations
1	Hydrogelâ€Guided, rAAVâ€Mediated IGFâ€I Overexpression Enables Longâ€Term Cartilage Repair and Protection against Perifocal Osteoarthritis in a Largeâ€Animal Fullâ€Thickness Chondral Defect Model at One Year In Vivo. Advanced Materials, 2021, 33, e2008451.	11.1	47
2	Biomaterial-assisted gene therapy for translational approaches to treat musculoskeletal disorders. Materials Today Advances, 2021, 9, 100126.	2.5	4
3	Recent Progress on Polysaccharide-Based Hydrogels for Controlled Delivery of Therapeutic Biomolecules. ACS Biomaterials Science and Engineering, 2021, 7, 4102-4127.	2.6	64
4	pNaSS-Grafted PCL Film-Guided rAAV TGF-Î² Gene Therapy Activates the Chondrogenic Activities in Human Bone Marrow Aspirates. Human Gene Therapy, 2021, 32, 895-906.	1.4	4
5	Niosomes-based gene delivery systems for effective transfection of human mesenchymal stem cells. Materials Science and Engineering C, 2021, 128, 112307.	3.8	11
6	Thermosensitive Hydrogel Based on PEOâ€“PPOâ€“PEO Poloxamers for a Controlled In Situ Release of Recombinant Adenoâ€Associated Viral Vectors for Effective Gene Therapy of Cartilage Defects. Advanced Materials, 2020, 32, e1906508.	11.1	108
7	Scaffold-Mediated Gene Delivery for Osteochondral Repair. Pharmaceutics, 2020, 12, 930.	2.0	16
8	Hydrogel-Based Localized Nonviral Gene Delivery in Regenerative Medicine Approachesâ€”An Overview. Pharmaceutics, 2020, 12, 752.	2.0	32
9	rAAV-Mediated Overexpression of SOX9 and TGF-Î² via Carbon Dot-Guided Vector Delivery Enhances the Biological Activities in Human Bone Marrow-Derived Mesenchymal Stromal Cells. Nanomaterials, 2020, 10, 855.	1.9	15
10	Enhanced Chondrogenic Differentiation Activities in Human Bone Marrow Aspirates via sox9 Overexpression Mediated by pNaSS-Grafted PCL Film-Guided rAAV Gene Transfer. Pharmaceutics, 2020, 12, 280.	2.0	15
11	Therapeutic Delivery of rAAV sox9 via Polymeric Micelles Counteracts the Effects of Osteoarthritis-Associated Inflammatory Cytokines in Human Articular Chondrocytes. Nanomaterials, 2020, 10, 1238.	1.9	10
12	Controlled Release of rAAV Vectors from APMA-Functionalized Contact Lenses for Corneal Gene Therapy. Pharmaceutics, 2020, 12, 335.	2.0	15
13	Effective genetic modification of human bone marrow-derived mesenchymal stem cells upon control delivery of raav vectors via carbon dot nanocarriers. Osteoarthritis and Cartilage, 2019, 27, S153-S154.	0.6	1
14	Effects of rAAV-Mediated sox9 Overexpression on the Biological Activities of Human Osteoarthritic Articular Chondrocytes in Their Intrinsic Three-Dimensional Environment. Journal of Clinical Medicine, 2019, 8, 1637.	1.0	8
15	Remodeling of Human Osteochondral Defects via rAAV-Mediated Co-Overexpression of TGF-Î² and IGF-I from Implanted Human Bone Marrow-Derived Mesenchymal Stromal Cells. Journal of Clinical Medicine, 2019, 8, 1326.	1.0	4
16	Chondrogenic differentiation processes in human bone marrow-derived mesenchymal stem cells upon raav mediated co-overexpression of TGF-B and IGF-I. Osteoarthritis and Cartilage, 2019, 27, S151-S152.	0.6	0
17	Current Trends in Viral Gene Therapy for Human Orthopaedic Regenerative Medicine. Tissue Engineering and Regenerative Medicine, 2019, 16, 345-355.	1.6	19
18	Therapeutic Effects of rAAV-Mediated Concomittant Gene Transfer and Overexpression of TGF-Î² and IGF-I on the Chondrogenesis of Human Bone-Marrow-Derived Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2019, 20, 2591.	1.8	8

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19	rAAV mediated combined gene transfer and overexpression of TGF-beta and IGF-I in human bone marrow-derived mesenchymal stem cells upon implantation in a human osteochondral defect model. Osteoarthritis and Cartilage, 2019, 27, S152-S153.	0.6	1
20	Carbon dots nanocarriers for the effective rAAV mediated transduction of human osteoarthritic chondrocytes in vitro. Osteoarthritis and Cartilage, 2019, 27, S154-S155.	0.6	1
21	Supramolecular Cyclodextrin-Based Hydrogels for Controlled Gene Delivery. Polymers, 2019, 11, 514.	2.0	37
22	Antimicrobial Properties and Osteogenicity of Vancomycin-Loaded Synthetic Scaffolds Obtained by Supercritical Foaming. ACS Applied Materials & Interfaces, 2018, 10, 3349-3360.	4.0	42
23	Chondrogenic Differentiation Processes in Human Bone-Marrow Aspirates Seeded in Three-Dimensional-Woven Poly(É›-Caprolactone) Scaffolds Enhanced by Recombinant Adeno-Associated Virusâ€“MediatedSOX9Gene Transfer. Human Gene Therapy, 2018, 29, 1277-1286.	1.4	12
24	Improved Chondrogenic Differentiation of rAAV SOX9-Modified Human MSCs Seeded in Fibrin-Polyurethane Scaffolds in a Hydrodynamic Environment. International Journal of Molecular Sciences, 2018, 19, 2635.	1.8	18
25	Effective Remodelling of Human Osteoarthritic Cartilage by sox9 Gene Transfer and Overexpression upon Delivery of rAAV Vectors in Polymeric Micelles. Molecular Pharmaceutics, 2018, 15, 2816-2826.	2.3	29
26	Sustained spatiotemporal release of TGFâ€Î²1 confers enhanced very early chondrogenic differentiation during osteochondral repair in specific topographic patterns. FASEB Journal, 2018, 32, 5298-5311.	0.2	16
27	rAAV SOX9 gene transfer stimulates the chondrogenic differentiation activities in human peripheral blood aspirates. Osteoarthritis and Cartilage, 2018, 26, S143.	0.6	0
28	PEO-PPO-PEO Tri-Block Copolymers for Gene Delivery Applications in Human Regenerative Medicineâ€”An Overview. International Journal of Molecular Sciences, 2018, 19, 775.	1.8	59
29	Controlled Gene Delivery Systems for Articular Cartilage Repair. Advanced Structured Materials, 2017, , 261-300.	0.3	1
30	Effects of combined rAAV-mediated TGF-Î² and sox9 gene transfer and overexpression on the metabolic and chondrogenic activities in human bone marrow aspirates. Journal of Experimental Orthopaedics, 2017, 4, 4.	0.8	5
31	Peripheral blood aspirates overexpressing IGFâ€Ⅰ via rAAV gene transfer undergo enhanced chondrogenic differentiation processes. Journal of Cellular and Molecular Medicine, 2017, 21, 2748-2758.	1.6	9
32	Supramolecular polypseudorotaxane gels for controlled delivery of rAAV vectors in human mesenchymal stem cells for regenerative medicine. International Journal of Pharmaceutics, 2017, 531, 492-503.	2.6	33
33	Hydrogels for precision meniscus tissue engineering: a comprehensive review. Connective Tissue Research, 2017, 58, 317-328.	1.1	25
34	Impact of mechanical stimulation on the chondrogenic processes in human bone marrow aspirates modified to overexpress sox9 via rAAV vectors. Journal of Experimental Orthopaedics, 2017, 4, 22.	0.8	9
35	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-Î² Gene Delivery. Stem Cells Translational Medicine, 2017, 6, 249-260.	1.6	11
36	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. International Journal of Nanomedicine, 2017, Volume 12, 6985-6996.	3.3	33

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37	Smart and Controllable rAAV Gene Delivery Carriers in Progenitor Cells for Human Musculoskeletal Regenerative Medicine with a Focus on the Articular Cartilage. Current Gene Therapy, 2017, 17, 127-138.	0.9	7
38	Hydrogel-Based Controlled Delivery Systems for Articular Cartilage Repair. BioMed Research International, 2016, 2016, 1-12.	0.9	39
39	rAAVâ€mediated combined gene transfer and overexpression of TGFâ€Î² and SOX9 remodels human osteoarthritic articular cartilage. Journal of Orthopaedic Research, 2016, 34, 2181-2190.	1.2	23
40	Biomedical-grade, high mannuronic acid content (BioMVM) alginate enhances the proteoglycan production of primary human meniscal fibrochondrocytes in a 3-D microenvironment. Scientific Reports, 2016, 6, 28170.	1.6	14
41	Recent tissue engineering-based advances for effective rAAV-mediated gene transfer in the musculoskeletal system. Bioengineered, 2016, 7, 175-188.	1.4	11
42	RAAV-mediated combined gene transfer and overexpression of TGF-Î² and SOX9 remodels human osteoarthritic articular cartilage. Osteoarthritis and Cartilage, 2016, 24, S397-S398.	0.6	0
43	<scp>TGF</scp>â€Î² gene transfer and overexpression via<scp>rAAV</scp> vectors stimulates chondrogenic events in human bone marrow aspirates. Journal of Cellular and Molecular Medicine, 2016, 20, 430-440.	1.6	16
44	Effects of rAAV-mediated FGF-2 gene transfer and overexpression upon the chondrogenic differentiation processes in human bone marrow aspirates. Journal of Experimental Orthopaedics, 2016, 3, 16.	0.8	8
45	PEO-PPO-PEO Carriers for rAAV-Mediated Transduction of Human Articular Chondrocytes in Vitro and in a Human Osteochondral Defect Model. ACS Applied Materials & Interfaces, 2016, 8, 20600-20613.	4.0	38
46	Co-overexpression of TGF-Î² and SOX9 via rAAV gene transfer modulates the metabolic and chondrogenic activities of human bone marrow-derived mesenchymal stem cells. Stem Cell Research and Therapy, 2016, 7, 20.	2.4	24
47	rAAV-mediated overexpression of sox9, TGF-Î² and IGF-I in minipig bone marrow aspirates to enhance the chondrogenic processes for cartilage repair. Gene Therapy, 2016, 23, 247-255.	2.3	26
48	Controlled release strategies for rAAV-mediated gene delivery. Acta Biomaterialia, 2016, 29, 1-10.	4.1	40
49	405. Enhanced Chondrogenic Potential of Human Bone Marrow Aspirates Upon rAAV-Mediated Overexpression of IGF-I. Molecular Therapy, 2015, 23, S160.	3.7	0
50	Supramolecular cyclodextrin-based drug nanocarriers. Chemical Communications, 2015, 51, 6275-6289.	2.2	142
51	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. Acta Biomaterialia, 2015, 18, 118-127.	4.1	47
52	Effects of exosomes upon the metabolic activities of human osteoarthritic articular cartilage in situ. Osteoarthritis and Cartilage, 2015, 23, A399.	0.6	5
53	Effects of IGF-I overexpression on the chondrogenic potential of human bone marrow aspirates modified via rAAV gene transfer. Osteoarthritis and Cartilage, 2015, 23, A365.	0.6	0
54	PEOâ€“PPOâ€“PEO micelles as effective rAAV-mediated gene delivery systems to target human mesenchymal stem cells without altering their differentiation potency. Acta Biomaterialia, 2015, 27, 42-52.	4.1	50

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55	Chondrogenic Differentiation Processes in Human Bone Marrow Aspirates upon rAAV-Mediated Gene Transfer and Overexpression of the Insulin-Like Growth Factor I. Tissue Engineering - Part A, 2015, 21, 2460-2471.	1.6	20
56	Effective genetic modification and differentiation of hMSCs upon controlled release of rAAV vectors using alginate/poloxamer composite systems. International Journal of Pharmaceutics, 2015, 496, 614-626.	2.6	29
57	Adapted chondrogenic differentiation of human mesenchymal stem cells via controlled release of TGF-Î²1 from poly(ethylene oxide)-terephtalate/poly(butylene terepthalate) multiblock scaffolds. Journal of Biomedical Materials Research - Part A, 2015, 103, 371-383.	2.1	23
58	Determination of effective rAAV-mediated gene transfer conditions to support chondrogenic differentiation processes in human primary bone marrow aspirates. Gene Therapy, 2015, 22, 50-57.	2.3	31
59	Current Progress in Stem Cell-Based Gene Therapy for Articular Cartilage Repair. Current Stem Cell Research and Therapy, 2015, 10, 121-131.	0.6	43
60	Current perspectives in stem cell research for knee cartilage repair. Stem Cells and Cloning: Advances and Applications, 2014, 7, 1.	2.3	64
61	Determination of the Chondrogenic Differentiation Processes in Human Bone Marrow-Derived Mesenchymal Stem Cells Genetically Modified to Overexpress Transforming Growth Factor-Î² via Recombinant Adeno-Associated Viral Vectors. Human Gene Therapy, 2014, 25, 1050-1060.	1.4	47
62	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. Stem Cell Research and Therapy, 2014, 5, 103.	2.4	42
63	Transforming Growth Factor Beta-Releasing Scaffolds for Cartilage Tissue Engineering. Tissue Engineering - Part B: Reviews, 2014, 20, 106-125.	2.5	114
64	Nonviral gene transfer into human meniscal cells. Part II: effect of three-dimensional environment and overexpression of human fibroblast growth factor 2. International Orthopaedics, 2014, 38, 1931-1936.	0.9	10
65	rAAV-mediated overexpression of TGF-Î² stably restructures human osteoarthritic articular cartilage in situ. Journal of Translational Medicine, 2013, 11, 211.	1.8	51
66	Poly(styrene oxide)-poly(ethylene oxide) block copolymers: From â€œclassicalâ€•chemotherapeutic nanocarriers to active cell-response inducers. Journal of Controlled Release, 2013, 167, 68-75.	4.8	27
67	Doxorubicin-loaded micelles of reverse poly(butylene oxide)â€“poly(ethylene oxide)â€“poly(butylene) Tj ETQq1 1 0.784314 rgBT /Ove Pharmaceutics, 2013, 445, 47-57.	2.6	30
68	Wound dressings loaded with an anti-inflammatory jucÃ¡ (Libidibia ferrea) extract using supercritical carbon dioxide technology. Journal of Supercritical Fluids, 2013, 74, 34-45.	1.6	69
69	Polyethylene Oxide-Polystyrene Oxide Triblock Copolymers as Biological-Responsive Nanocarriers.. Materials Research Society Symposia Proceedings, 2012, 1468, 7.	0.1	1
70	Poly(ethylene oxide)â€“poly(styrene oxide)â€“poly(ethylene oxide) copolymers: Micellization, drug solubilization, and gelling features. Journal of Colloid and Interface Science, 2012, 387, 275-284.	5.0	18
71	Hot melt poly-Îµ-caprolactone/poloxamine implantable matrices for sustained delivery of ciprofloxacin. Acta Biomaterialia, 2012, 8, 1507-1518.	4.1	57
72	Bio-inspired porous SiC ceramics loaded with vancomycin for preventing MRSA infections. Journal of Materials Science: Materials in Medicine, 2011, 22, 339-347.	1.7	18

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73	Osteogenic efficiency of in situ gelling poloxamine systems with and without bone morphogenetic protein-2. , 2011, 21, 317-340.		49
74	Inhibition of P-glycoprotein pumps by PEOâ€“PPO amphiphiles: branched versus linear derivatives. Nanomedicine, 2010, 5, 1371-1383.	1.7	46
75	Poloxamine-based nanomaterials for drug delivery. Frontiers in Bioscience - Elite, 2010, E2, 424-440.	0.9	82
76	N-alkylation of poloxamines modulates micellar assembly and encapsulation and release of the antiretroviral efavirenz. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 76, 24-37.	2.0	73