Arvydas Usas

List of Publications by Year
in descending order

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64 papers	5,901 citations	81743 39 h-index	114278 63 g-index
64 all docs	64 docs citations	64 times ranked	5581 citing authors

#	Article	IF	Citations
1	Design and fabrication method of bi-layered fibrous scaffold for cartilage regeneration. Biochemical Engineering Journal, 2022, 182, 108413.	1.8	3
2	Functionalized Electrospun Scaffoldâ€“Human-Muscle-Derived Stem Cell Construct Promotes In Vivo Neocartilage Formation. Polymers, 2022, 14, 2498.	2.0	4
3	The Effect of Ozone Treatment on the Physicochemical Properties and Biocompatibility of Electrospun Poly(Îµ)caprolactone Scaffolds. Pharmaceutics, 2021, 13, 1288.	2.0	7
4	Nondestructive Assessment of Articular Cartilage Electromechanical Properties after Osteochondral Autologous and Allogeneic Transplantation in a Goat Model. Cartilage, 2020, 11, 348-357.	1.4	2
5	Customization of direct laser lithography-based 3D scaffolds for optimized in vivo outcome. Applied Surface Science, 2019, 487, 692-702.	3.1	19
6	Quantitative Arthroscopic Assessment of Articular Cartilage Quality by Means of Cartilage Electromechanical Properties. Arthroscopy Techniques, 2018, 7, e763-e766.	0.5	2
7	Skeletal Muscle-Derived Stem/Progenitor Cells: A Potential Strategy for the Treatment of Acute Kidney Injury. Stem Cells International, 2016, 2016, 1-13.	1.2	15
8	Cyclooxygenase-2 deficiency impairs muscle-derived stem cell-mediated bone regeneration via cellular autonomous and non-autonomous mechanisms. Human Molecular Genetics, 2016, 25, 3216-3231.	1.4	26
9	Regenerative pharmacology for the treatment of acute kidney injury: Skeletal muscle stem/progenitor cells for renal regeneration?. Pharmacological Research, 2016, 113, 802-807.	3.1	4
10	Characterization of tissue engineered cartilage products: Recent developments in advanced therapy. Pharmacological Research, 2016, 113, 823-832.	3.1	7
11	Impact of storage conditions on electromechanical, histological and histochemical properties of osteochondral allografts. BMC Musculoskeletal Disorders, 2015, 16, 314.	0.8	27
12	The role of Notch signaling in muscle progenitor cell depletion and the rapid onset of histopathology in muscular dystrophy. Human Molecular Genetics, 2015, 24, 2923-2937.	1.4	35
13	Human muscleâ€“derived stem/progenitor cells promote functional murine peripheral nerve regeneration. Journal of Clinical Investigation, 2014, 124, 1745-1756.	3.9	79
14	Investigating the role of DNA damage in tobacco smoking-induced spine degeneration. Spine Journal, 2014, 14, 416-423.	0.6	57
15	Role of donor and host cells in muscleâ€derived stem cellâ€mediated bone repair: differentiation <i>vs.</i> paracrine effects. FASEB Journal, 2014, 28, 3792-3809.	0.2	48
16	A comparison of bone regeneration with human mesenchymal stem cells and muscle-derived stem cells and the critical role of BMP. Biomaterials, 2014, 35, 6859-6870.	5.7	78
17	Dystrophin and utrophin â€œdouble knockoutâ€• dystrophic mice exhibit a spectrum of degenerative musculoskeletal abnormalities. Journal of Orthopaedic Research, 2013, 31, 343-349.	1.2	52
18	RhoA mediates defective stem cell function and heterotopic ossification in dystrophic muscle of mice. FASEB Journal, 2013, 27, 3619-3631.	0.2	40

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19	Human myogenic endothelial cells exhibit chondrogenic and osteogenic potentials at the clonal level. Journal of Orthopaedic Research, 2013, 31, 1089-1095.	1.2	17
20	Sustained Release of Bone Morphogenetic Protein 2 via Coacervate Improves the Osteogenic Potential of Muscle-Derived Stem Cells. Stem Cells Translational Medicine, 2013, 2, 667-677.	1.6	45
21	BMP2 is Superior to BMP4 for Promoting Human Muscle-Derived Stem Cell-Mediated Bone Regeneration in a Critical-Sized Calvarial Defect Model. Cell Transplantation, 2013, 22, 2393-2408.	1.2	40
22	Platelet-Rich Plasma Promotes the Proliferation of Human Muscle Derived Progenitor Cells and Maintains Their Stemness. PLoS ONE, 2013, 8, e64923.	1.1	68
23	The Microenvironment-Specific Transformation of Adult Stem Cells Models Malignant Triton Tumors. PLoS ONE, 2013, 8, e82173.	1.1	5
24	Effect of Host Sex and Sex Hormones on Muscle-Derived Stem Cell-Mediated Bone Formation and Defect Healing. Tissue Engineering - Part A, 2012, 18, 1751-1759.	1.6	27
25	Therapeutic Potential of Anterior Cruciate Ligament-Derived Stem Cells for Anterior Cruciate Ligament Reconstruction. Cell Transplantation, 2012, 21, 1651-1665.	1.2	96
26	Isolation and Characterization of Human Anterior Cruciate Ligament-Derived Vascular Stem Cells. Stem Cells and Development, 2012, 21, 859-872.	1.1	100
27	NF-Î°B inhibition delays DNA damageâ€"induced senescence and aging in mice. Journal of Clinical Investigation, 2012, 122, 2601-2612.	3.9	358
28	Use of an Ultrasonic Blade Facilitates Muscle Repair After Incision Injury. Journal of Surgical Research, 2011, 167, e177-e184.	0.8	17
29	Identification and characterization of chondrogenic progenitor cells in the fascia of postnatal skeletal muscle. Journal of Molecular Cell Biology, 2011, 3, 369-377.	1.5	29
30	Skeletal Muscle-Derived Stem Cells: Implications for Cell-Mediated Therapies. Medicina (Lithuania), 2011, 47, 469.	0.8	49
31	Skeletal muscle-derived stem cells: implications for cell-mediated therapies. Medicina (Lithuania), 2011, 47, 469-79.	0.8	24
32	Accelerated aging of intervertebral discs in a mouse model of progeria. Journal of Orthopaedic Research, 2010, 28, 1600-1607.	1.2	79
33	Regenerative Medicine Based on Muscle-Derived Stem Cells. Operative Techniques in Orthopaedics, 2010, 20, 119-126.	0.2	3
34	Blocking vascular endothelial growth factor with soluble Fltâ€1 improves the chondrogenic potential of mouse skeletal muscleâ€"derived stem cells. Arthritis and Rheumatism, 2009, 60, 155-165.	6.7	96
35	Cartilage repair in a rat model of osteoarthritis through intraarticular transplantation of muscleâ€derived stem cells expressing bone morphogenetic protein 4 and soluble fltâ€1. Arthritis and Rheumatism, 2009, 60, 1390-1405.	6.7	185
36	Bone Regeneration Mediated by BMP4-Expressing Muscle-Derived Stem Cells Is Affected by Delivery System. Tissue Engineering - Part A, 2009, 15, 285-293.	1.6	50

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37	The Dose of Growth Factors Influences the Synergistic Effect of Vascular Endothelial Growth Factor on Bone Morphogenetic Protein 4â€"Induced Ectopic Bone Formation. Tissue Engineering - Part A, 2009, 15, 2123-2133.	1.6	51
38	Ex Vivo Noggin Gene Therapy Inhibits Bone Formation in a Mouse Model of Postoperative Resynostosis. Plastic and Reconstructive Surgery, 2009, 123, 94S-103S.	0.7	24
39	The influence of sex on the chondrogenic potential of muscleâ€derived stem cells: Implications for cartilage regeneration and repair. Arthritis and Rheumatism, 2008, 58, 3809-3819.	6.7	82
40	Muscle Repair after Injury and Disease. , 2008, , 459-480.		1
41	Muscle-derived stem cells for tissue engineering and regenerative therapy. Biomaterials, 2007, 28, 5401-5406.	5.7	135
42	Osteogenic Potential of Postnatal Skeletal Muscleâ€"Derived Stem Cells Is Influenced by Donor Sex. Journal of Bone and Mineral Research, 2007, 22, 1592-1602.	3.1	72
43	Cartilage repair using bone morphogenetic protein 4 and muscle-derived stem cells. Arthritis and Rheumatism, 2006, 54, 433-442.	6.7	262
44	Differential Effect of BMP4 on NIH/3T3 and C2C12 Cells: Implications for Endochondral Bone Formation. Journal of Bone and Mineral Research, 2005, 20, 1611-1623.	3.1	55
45	VEGF Improves, Whereas sFlt1 Inhibits, BMP2-Induced Bone Formation and Bone Healing Through Modulation of Angiogenesis. Journal of Bone and Mineral Research, 2005, 20, 2017-2027.	3.1	350
46	Noggin Improves Bone Healing Elicited by Muscle Stem Cells Expressing Inducible BMP4. Molecular Therapy, 2005, 12, 239-246.	3.7	45
47	The Effect of Relaxin Treatment on Skeletal Muscle Injuries. American Journal of Sports Medicine, 2005, 33, 1816-1824.	1.9	100
48	Development of a self-inactivating tet-on retroviral vector expressing bone morphogenetic protein 4 to achieve regulated bone formation. Molecular Therapy, 2004, 9, 885-894.	3.7	55
49	Converse Relationship Between In Vitro Osteogenic Differentiation and In Vivo Bone Healing Elicited by Different Populations of Muscle-Derived Cells Genetically Engineered to Express BMP4. Journal of Bone and Mineral Research, 2004, 19, 630-641.	3.1	25
50	Structural and functional healing of critical-size segmental bone defects by transduced muscle-derived cells expressing BMP4. Journal of Gene Medicine, 2004, 6, 984-991.	1.4	80
51	Ex vivo gene therapy-induced endochondral bone formation: comparison of muscle-derived stem cells and different subpopulations of primary muscle-derived cells. Bone, 2004, 34, 982-992.	1.4	61
52	Retroviral Delivery of Noggin Inhibits the Formation of Heterotopic Ossification Induced by BMP-4, Demineralized Bone Matrix, and Trauma in an Animal Model. Journal of Bone and Joint Surgery - Series A, 2004, 86, 80-91.	1.4	108
53	The role of cell type in bone healing mediated by ex vivo gene therapy. Langenbeck's Archives of Surgery, 2003, 388, 347-355.	0.8	21
54	Gene therapy to improve osteogenesis in bone lesions with severe soft tissue damage. Langenbeck's Archives of Surgery, 2003, 388, 356-365.	0.8	12

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55	Improvement of muscle healing through enhancement of muscle regeneration and prevention of fibrosis. Muscle and Nerve, 2003, 28, 365-372.	1.0	176
56	Gamma interferon as an antifibrosis agent in skeletal muscle. Journal of Orthopaedic Research, 2003, 21, 798-804.	1.2	145
57	Enhancement of Bone Healing Based onEx VivoGene Therapy Using Human Muscle-Derived Cells Expressing Bone Morphogenetic Protein 2. Human Gene Therapy, 2002, 13, 1201-1211.	1.4	127
58	BMP4-Expressing Muscle-Derived Stem Cells Differentiate into Osteogenic Lineage and Improve Bone Healing in Immunocompetent Mice. Molecular Therapy, 2002, 6, 169-178.	3.7	174
59	Synergistic enhancement of bone formation and healing by stem cellâ€"expressed VEGF and bone morphogenetic protein-4. Journal of Clinical Investigation, 2002, 110, 751-759.	3.9	625
60	Enhancement of Tendon-Bone Integration of Anterior Cruciate Ligament Grafts with Bone Morphogenetic Protein-2 Gene Transfer. Journal of Bone and Joint Surgery - Series A, 2002, 84, 1123-1131.	1.4	225
61	Muscle derived, cell based ex vivo gene therapy for treatment of full thickness articular cartilage defects. Journal of Rheumatology, 2002, 29, 1920-30.	1.0	98
62	The Use of an Antifibrosis Agent to Improve Muscle Recovery after Laceration. American Journal of Sports Medicine, 2001, 29, 394-402.	1.9	225
63	Effect of Bone Morphogenetic Protein-2-Expressing Muscle-Derived Cells on Healing of Critical-Sized Bone Defects in Mice. Journal of Bone and Joint Surgery - Series A, 2001, 83, 1032-1039.	1.4	181
64	Clonal Isolation of Muscle-Derived Cells Capable of Enhancing Muscle Regeneration and Bone Healing. Journal of Cell Biology, 2000, 150, 1085-1100.	2.3	593