

George Muschler

List of Publications by Year in descending order

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85
papers

5,671
citations

117625

34
h-index

76900

74
g-index

86
all docs

86
docs citations

86
times ranked

5840
citing authors

#	ARTICLE	IF	CITATIONS
1	ENGINEERING PRINCIPLES OF CLINICAL CELL-BASED TISSUE ENGINEERING. Journal of Bone and Joint Surgery - Series A, 2004, 86, 1541-1558.	3.0	732
2	Age- and gender-related changes in the cellularity of human bone marrow and the prevalence of osteoblastic progenitors. Journal of Orthopaedic Research, 2001, 19, 117-125.	2.3	453
3	Aspiration to Obtain Osteoblast Progenitor Cells from Human Bone Marrow. Journal of Bone and Joint Surgery - Series A, 1997, 79, 1699-1709.	3.0	444
4	A Call for Standardization in Platelet-Rich Plasma Preparation Protocols and Composition Reporting. Journal of Bone and Joint Surgery - Series A, 2017, 99, 1769-1779.	3.0	324
5	Characterization of human bone marrow stromal cells with respect to osteoblastic differentiation. Journal of Orthopaedic Research, 1997, 15, 546-557.	2.3	298
6	Bone graft materials. An overview of the basic science. Clinical Orthopaedics and Related Research, 2000, , 10-27.	1.5	259
7	The Design and Use of Animal Models for Translational Research in Bone Tissue Engineering and Regenerative Medicine. Tissue Engineering - Part B: Reviews, 2010, 16, 123-145.	4.8	246
8	BONE CELLS AND MATRICES IN ORTHOPEDIC TISSUE ENGINEERING. Orthopedic Clinics of North America, 2000, 31, 357-374.	1.2	219
9	Prosthetic Knee Replacement after Resection of a Malignant Tumor of the Distal Part of the Femur. Medium to Long-Term Results*. Journal of Bone and Joint Surgery - Series A, 1998, 80, 636-47.	3.0	182
10	Circulating cells with osteogenic potential are physiologically mobilized into the fracture healing site in the parabiotic mice model. Journal of Orthopaedic Research, 2008, 26, 165-175.	2.3	160
11	Optimizing Clinical Use of Biologics in Orthopaedic Surgery: Consensus Recommendations From the 2018 AAOS/NIH U-13 Conference. Journal of the American Academy of Orthopaedic Surgeons, The, 2019, 27, e50-e63.	2.5	122
12	A three-dimensional scaffold with precise micro-architecture and surface micro-textures. Biomaterials, 2009, 30, 4610-4617.	11.4	118
13	Evaluation of Collagen Ceramic Composite Graft Materials in a Spinal Fusion Model. Clinical Orthopaedics and Related Research, 1996, 328, 250-260.	1.5	103
14	Selective Retention of Bone Marrow-Derived Cells to Enhance Spinal Fusion. Clinical Orthopaedics and Related Research, 2005, 432, 242-251.	1.5	102
15	Intra-Articular Cellular Therapy for Osteoarthritis and Focal Cartilage Defects of the Knee. Journal of Bone and Joint Surgery - Series A, 2016, 98, 1511-1521.	3.0	98
16	Evidence for the Use of Cell-Based Therapy for the Treatment of Osteonecrosis of the Femoral Head: A Systematic Review of the Literature. Journal of Arthroplasty, 2017, 32, 1698-1708.	3.1	87
17	Practical Modeling Concepts for Connective Tissue Stem Cell and Progenitor Compartment Kinetics. Journal of Biomedicine and Biotechnology, 2003, 2003, 170-193.	3.0	78
18	Growth of connective tissue progenitor cells on microtextured polydimethylsiloxane surfaces. Journal of Biomedical Materials Research Part B, 2002, 62, 499-506.	3.1	74

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19	Classification systems for platelet-rich plasma. Bone and Joint Journal, 2019, 101-B, 891-896.	4.4	67
20	Evaluation of bone-grafting materials in a new canine segmental spinal fusion model. Journal of Orthopaedic Research, 1993, 11, 514-524.	2.3	63
21	A Collaborative Of Leading Health Systems Finds Wide Variations In Total Knee Replacement Delivery And Takes Steps To Improve Value. Health Affairs, 2012, 31, 1329-1338.	5.2	62
22	Variability in the Preparation, Reporting, and Use of Bone Marrow Aspirate Concentrate in Musculoskeletal Disorders. Journal of Bone and Joint Surgery - Series A, 2018, 100, 517-525.	3.0	62
23	Analysis of Cell Therapies Used in Clinical Trials for the Treatment of Osteonecrosis of the Femoral Head: A Systematic Review of the Literature. Journal of Arthroplasty, 2017, 32, 2612-2618.	3.1	59
24	Low-intensity pulsed ultrasound accelerates fracture healing by stimulation of recruitment of both local and circulating osteogenic progenitors. Journal of Orthopaedic Research, 2012, 30, 1516-1521.	2.3	53
25	Analysis of connective tissue progenitor cell behavior on polydimethylsiloxane smooth and channel micro-textures. Biomedical Microdevices, 2002, 4, 267-275.	2.8	51
26	Stromal cell-derived factor-1 and monocyte chemoattractant protein-1 improve recruitment of osteogenic cells into sites of musculoskeletal repair. Journal of Orthopaedic Research, 2011, 29, 1064-1069.	2.3	51
27	Post microtextures accelerate cell proliferation and osteogenesis. Acta Biomaterialia, 2010, 6, 160-169.	8.3	50
28	The Stem-Cell Market for the Treatment of Knee Osteoarthritis: A Patient Perspective. Journal of Knee Surgery, 2018, 31, 551-556.	1.6	46
29	Phase II trial of liposomal doxorubicin (Doxil) in advanced soft tissue sarcomas. Investigational New Drugs, 2000, 18, 253-259.	2.6	43
30	Stem Cell Therapies in Orthopaedic Trauma. Journal of Orthopaedic Trauma, 2015, 29, S24-S27.	1.4	43
31	Bone formation following OP-1 implantation is improved by addition of autogenous bone marrow cells in a canine femur defect model. Journal of Orthopaedic Research, 2007, 25, 1333-1342.	2.3	42
32	The Efficiency of Bone Marrow Aspiration for the Harvest of Connective Tissue Progenitors from the Human Iliac Crest. Journal of Bone and Joint Surgery - Series A, 2017, 99, 1673-1682.	3.0	37
33	The influence of tethered epidermal growth factor on connective tissue progenitor colony formation. Biomaterials, 2009, 30, 4629-4638.	11.4	35
34	Open mHealth Architecture: A Primer for Tomorrow's Orthopedic Surgeon and Introduction to Its Use in Lower Extremity Arthroplasty. Journal of Arthroplasty, 2017, 32, 1058-1062.	3.1	35
35	<i>In Vivo</i> Transplantation of Autogenous Marrow-Derived Cells Following Rapid Intraoperative Magnetic Separation Based on Hyaluronan to Augment Bone Regeneration. Tissue Engineering - Part A, 2013, 19, 125-134.	3.1	33
36	Evaluation of Osteoconductive Scaffolds in the Canine Femoral Multi-Defect Model. Tissue Engineering - Part A, 2013, 19, 634-648.	3.1	31

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37	The Association Between Readmission and Patient Experience in a Total Hip Arthroplasty Population. <i>Journal of Arthroplasty</i> , 2018, 33, 1668-1674.	3.1	29
38	The Cost-Effectiveness of Platelet-Rich Plasma Injections for Knee Osteoarthritis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e104.	3.0	29
39	Morphogenesis of the mitochondrial alterations in muscle diseases. <i>Journal of the Neurological Sciences</i> , 1982, 55, 25-37.	0.6	27
40	Variation in primary and culture-expanded cells derived from connective tissue progenitors in human bone marrow space, bone trabecular surface and adipose tissue. <i>Cytotherapy</i> , 2018, 20, 343-360.	0.7	26
41	Inflammatory Cytokines Stabilize SOXC Transcription Factors to Mediate the Transformation of Fibroblast-Like Synoviocytes in Arthritic Disease. <i>Arthritis and Rheumatology</i> , 2018, 70, 371-382.	5.6	26
42	The effect of oxygen tension on the in vitro assay of human osteoblastic connective tissue progenitor cells. <i>Journal of Orthopaedic Research</i> , 2008, 26, 1390-1397.	2.3	25
43	Three-Dimensional MR Imaging of the Knee Using Surface Coils. <i>Journal of Computer Assisted Tomography</i> , 1986, 10, 773-777.	0.9	24
44	The Effect of Surgical Technique and Spacer Texture on Bone Regeneration: A Caprine Study Using the Masquelet Technique. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 2575-2585.	1.5	23
45	Cellular therapy injections in today's orthopedic market: A social media analysis. <i>Cytotherapy</i> , 2017, 19, 1392-1399.	0.7	23
46	Bone Transport Using Intramedullary Fixation and a Single Flexible Traction Cable. <i>Clinical Orthopaedics and Related Research</i> , 1996, 325, 256-268.	1.5	22
47	Assessment of Methods for Rapid Intraoperative Concentration and Selection of Marrow-Derived Connective Tissue Progenitors for Bone Regeneration Using the Canine Femoral Multidefect Model. <i>Tissue Engineering - Part A</i> , 2016, 22, 17-30.	3.1	22
48	Transpedicular aspiration of osteoprogenitor cells from the vertebral body: progenitor cell concentrations affected by serial aspiration. <i>Spine Journal</i> , 2009, 9, 995-1002.	1.3	20
49	Platelet-Rich Plasma for the Treatment of Knee Osteoarthritis: A Review. <i>Journal of Knee Surgery</i> , 2017, 30, 627-633.	1.6	20
50	Donor-matched comparison of chondrogenic progenitors resident in human infrapatellar fat pad, synovium, and periosteum - implications for cartilage repair. <i>Connective Tissue Research</i> , 2019, 60, 597-610.	2.3	19
51	Formation of osteogenic colonies on well-defined adhesion peptides by freshly isolated human marrow cells. <i>Biomaterials</i> , 2007, 28, 1847-1861.	11.4	17
52	Histopathological assessment of primary osteoarthritic knees in large patient cohort reveal the possibility of several potential patterns of osteoarthritis initiation. <i>Current Research in Translational Medicine</i> , 2017, 65, 133-139.	1.8	17
53	Bone Marrow-Derived Cellular Therapies in Orthopaedics. <i>JBJS Reviews</i> , 2018, 6, e4-e4.	2.0	17
54	Primary Cells Isolated from Human Knee Cartilage Reveal Decreased Prevalence of Progenitor Cells but Comparable Biological Potential During Osteoarthritic Disease Progression. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 1771-1780.	3.0	17

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55	A custom distal femoral prosthesis for reconstruction of large defects following wide excision for sarcoma: results and prognostic factors. <i>Orthopedics</i> , 1995, 18, 527-38.	1.1	17
56	Stem cell industry update: 2012 to 2016 reveals accelerated investment, but market capitalization and earnings lag. <i>Cytotherapy</i> , 2017, 19, 1131-1139.	0.7	16
57	Bone Marrow Cellular Therapies: Novel Therapy for Knee Osteoarthritis. <i>Journal of Knee Surgery</i> , 2018, 31, 022-026.	1.6	16
58	High occurrence of osteoarthritic histopathological features unaccounted for by traditional scoring systems in lateral femoral condyles from total knee arthroplasty patients with varus alignment. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 89, 197-203.	3.3	16
59	Forward and reverse degradomics defines the proteolytic landscape of human knee osteoarthritic cartilage and the role of the serine protease HtrA1. <i>Osteoarthritis and Cartilage</i> , 2022, 30, 1091-1102.	1.3	15
60	Integrated Colony Imaging, Analysis, and Selection Device for Regenerative Medicine. <i>SLAS Technology</i> , 2017, 22, 217-223.	1.9	14
61	Hyaluronan as a Novel Marker for Rapid Selection of Connective Tissue Progenitors. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2559-2567.	2.5	13
62	Circular Halbach Array for Fast Magnetic Separation of Hyaluronan-Expressing Tissue Progenitors. <i>Analytical Chemistry</i> , 2015, 87, 9908-9915.	6.5	13
63	Variability in subjective review of umbilical cord blood colony forming unit assay. <i>Cytometry Part B - Clinical Cytometry</i> , 2016, 90, 517-524.	1.5	13
64	Evaluation of rhBMP-2/collagen/TCP-HA bone graft with and without bone marrow cells in the canine femoral multi defect model. , 2015, 29, 57-69.		12
65	Factors Influencing Patients' Hospital Rating After Total Joint Arthroplasty. <i>Orthopedics</i> , 2017, 40, 377-380.	1.1	12
66	Response of bone marrow derived connective tissue progenitor cell morphology and proliferation on geometrically modulated microtextured substrates. <i>Biomedical Microdevices</i> , 2013, 15, 385-396.	2.8	11
67	Stem and Progenitor Cells for Cartilage Repair: Source, Safety, Evidence, and Efficacy. <i>Operative Techniques in Sports Medicine</i> , 2017, 25, 25-33.	0.3	10
68	MR Imaging of Iliopsoas Bursitis and Concurrent Avascular Necrosis of the Femoral Head. <i>Journal of Computer Assisted Tomography</i> , 1985, 9, 969-971.	0.9	9
69	Candida(Torulopsis)glabrataSeptic Arthritis. <i>Clinical Infectious Diseases</i> , 1999, 29, 208-209.	5.8	9
70	What Influences How Patients Rate Their Hospital Stay After Total Hip Arthroplasty?. <i>Surgical Technology International</i> , 2017, 30, 405-410.	0.2	9
71	Biomarkers of Rotator Cuff Disease Severity and Repair Healing. <i>JBJS Reviews</i> , 2018, 6, e9-e9.	2.0	8
72	Quantitative image analysis of connective tissue progenitors. , 2007, 29, 112-21.		8

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73	The Use of Composite Bone Graft Materials in a Segmental Femoral Defect Model in the Rat. Journal of Orthopaedic Trauma, 1988, 2, 57.	1.4	7
74	Influence of stability and mechanical properties of a spinal fixation device on production of wear debris particles. In Vivo. , 2000, 53, 193-198.		7
75	CORR Insights®: Which Clinical and Patient Factors Influence the National Economic Burden of Hospital Readmissions After Total Joint Arthroplasty. Clinical Orthopaedics and Related Research, 2017, 475, 2938-2940.	1.5	7
76	What Influences How Patients with Depression Rate Hospital Stay After Total Joint Arthroplasty?. Surgical Technology International, 2017, 30, 373-378.	0.2	7
77	Factors Affecting Connective Tissue Progenitors and Orthopaedic Implications. Scandinavian Journal of Surgery, 2006, 95, 81-89.	2.6	5
78	Quantifying Proliferative and Surface Marker Heterogeneity in Colony Founding Connective Tissue Progenitors and Their Progeny Using Time-lapse Microscopy. Journal of Tissue Engineering and Regenerative Medicine, 2018, 13, 203-216.	2.7	5
79	Patient Age and Cell Concentration Influence Prevalence and Concentration of Progenitors in Bone Marrow Aspirates. Journal of Bone and Joint Surgery - Series A, 2021, 103, 1628-1636.	3.0	5
80	A 20-Year Retrospective Review of Surgically Treated Liposarcoma at the Cleveland Clinic. Orthopedics, 2007, 30, 227-234.	1.1	5
81	Comparative Assessment of Primary Osteoarthritis Progression Using Conventional Histopathology, Polarized Light Microscopy, and Immunohistochemistry. Cartilage, 2020, , 194760352093845.	2.7	4
82	Evaluation of human bone morphogenetic protein 2 in a canine spinal fusion model. Clinical Orthopaedics and Related Research, 1994, , 229-40.	1.5	4
83	Characterization of connective tissue progenitors through phase contrast and multicolor fluorescence time-lapse microscopy. Proceedings of SPIE, 2015, , .	0.8	1
84	ASPIRATION OF OSTEOPROGENITOR CELLS FOR AUGMENTING SPINAL FUSION. Journal of Bone and Joint Surgery - Series A, 2005, 87, 2655-2661.	3.0	0
85	Early Termination of Randomized Clinical Trials in Orthopaedics. Surgical Technology International, 2017, 30, 290-294.	0.2	0