Benjamin Levi

List of Publications by Year
in descending order

144 papers	6,301 citations	70961 41 h-index	82410 72 g-index
146 all docs	146 docs citations	146 times ranked	6560 citing authors

#	Article	IF	Citations
1	How We Did It: Implementing a Trainee-Focused Surgical Research Curriculum and Infrastructure. Journal of Surgical Education, 2022, 79, 35-39.	1.2	1
2	533 Human Case Characterizations of Skin Burn Using Novel Multi-Spectral Short Wave Infrared Imaging. Journal of Burn Care and Research, 2022, 43, S101-S102.	0.2	0
3	A Multicenter Evaluation of the Seraph 100 Microbind Affinity Blood Filter for the Treatment of Severe COVID-19. , 2022, 4, e0662.		23
4	Telehealth and Burn Care: From Faxes to Augmented Reality. Bioengineering, 2022, 9, 211.	1.6	1
5	Neuron-to-vessel signaling is a required feature of aberrant stem cell commitment after soft tissue trauma. Bone Research, 2022, 10, .	5.4	12
6	BMP Ligand Trap ALK3-Fc Attenuates Osteogenesis and Heterotopic Ossification in Blast-Related Lower Extremity Trauma. Stem Cells and Development, 2021, 30, 91-105.	1.1	17
7	Novel Lineage-Tracing System to Identify Site-Specific Ectopic Bone Precursor Cells. Stem Cell Reports, 2021, 16, 626-640.	2.3	20
8	Teamwork at the Bench: Strategies for Collaborative Surgical Science in a Pandemic. Journal of Surgical Research, 2021, 261, 39-42.	0.8	0
9	High Frequency Spectral Ultrasound Imaging Detects Early Heterotopic Ossification in Rodents. Stem Cells and Development, 2021, 30, 473-484.	1.1	6
10	Dermal Nanoemulsion Treatment Reduces Burn Wound Conversion and Improves Skin Healing in a Porcine Model of Thermal Burn Injury. Journal of Burn Care and Research, 2021, 42, 1232-1242.	0.2	6
11	Murine muscle stem cell response to perturbations of the neuromuscular junction are attenuated with aging. ELife, 2021, 10, .	2.8	20
12	Histology Scoring System for Murine Cutaneous Wounds. Stem Cells and Development, 2021, 30, 1141-1152.	1.1	20
13	NGF-TrkA signaling dictates neural ingrowth and aberrant osteochondral differentiation after soft tissue trauma. Nature Communications, 2021, 12, 4939.	5.8	36
14	Shortâ€wave infrared light imaging measures tissue moisture and distinguishes superficial from deep burns. Wound Repair and Regeneration, 2020, 28, 185-193.	1.5	4
15	Cellular Plasticity in Musculoskeletal Development, Regeneration, and Disease. Journal of Orthopaedic Research, 2020, 38, 708-718.	1.2	4
16	The role of neutrophil extracellular traps and TLR signaling in skeletal muscle ischemia reperfusion injury. FASEB Journal, 2020, 34, 15753-15770.	0.2	21
17	Mechanisms of bone development and repair. Nature Reviews Molecular Cell Biology, 2020, 21, 696-711.	16.1	433
18	Articular cartilage regeneration by activated skeletal stem cells. Nature Medicine, 2020, 26, 1583-1592.	15.2	194

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19	Perivascular Fibro-Adipogenic Progenitor Tracing during Post-Traumatic Osteoarthritis. American Journal of Pathology, 2020, 190, 1909-1920.	1.9	17
20	Activin A does not drive post-traumatic heterotopic ossification. Bone, 2020, 138, 115473.	1.4	22
21	Tuning Macrophage Phenotype to Mitigate Skeletal Muscle Fibrosis. Journal of Immunology, 2020, 204, 2203-2215.	0.4	37
22	Small molecule inhibition of non-canonical (TAK1-mediated) BMP signaling results in reduced chondrogenic ossification and heterotopic ossification in a rat model of blast-associated combat-related lower limb trauma. Bone, 2020, 139, 115517.	1.4	9
23	Self-reported baseline phenotypes from the International Fibrodysplasia Ossificans Progressiva (FOP) Association Global Registry. Bone, 2020, 134, 115274.	1.4	18
24	Regulation of heterotopic ossification byÂmonocytes in a mouse model of aberrant wound healing. Nature Communications, 2020, 11, 722.	5.8	104
25	Endogenous CCN family member WISP1 inhibits trauma-induced heterotopic ossification. JCI Insight, 2020, 5, .	2.3	12
26	Immobilization after injury alters extracellular matrix and stem cell fate. Journal of Clinical Investigation, 2020, 130, 5444-5460.	3.9	42
27	Disruption of Neutrophil Extracellular Traps (NETs) Links Mechanical Strain to Post-traumatic Inflammation. Frontiers in Immunology, 2019, 10, 2148.	2.2	25
28	Heterotopic Ossification: A Comprehensive Review. JBMR Plus, 2019, 3, e10172.	1.3	277
29	Investigation into Possible Association of Oxandrolone and Heterotopic Ossification Following Burn Injury. Journal of Burn Care and Research, 2019, 40, 398-405.	0.2	4
30	Injectable osteogenic microtissues containing mesenchymal stromal cells conformally fill and repair critical-size defects. Biomaterials, 2019, 208, 32-44.	5.7	91
31	Hypoxia-inducible factor 2Î± is a negative regulator of osteoblastogenesis and bone mass accrual. Bone Research, 2019, 7, 7.	5.4	39
32	Coordinating Tissue Regeneration Through Transforming Growth Factor-Î² Activated Kinase 1 Inactivation and Reactivation. Stem Cells, 2019, 37, 766-778.	1.4	10
33	Mesenchymal VEGFA induces aberrant differentiation in heterotopic ossification. Bone Research, 2019, 7, 36.	5.4	37
34	Harnessing macrophage-mediated degradation of gelatin microspheres for spatiotemporal control of BMP2 release. Biomaterials, 2018, 161, 216-227.	5.7	106
35	High-frequency spectral ultrasound imaging (SUSI) visualizes early post-traumatic heterotopic ossification (HO) in a mouse model. Bone, 2018, 109, 49-55.	1.4	9
36	TGF-Î² Family Signaling in Mesenchymal Differentiation. Cold Spring Harbor Perspectives in Biology, 2018, 10, a022202.	2.3	175

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37	Heterotopic ossification and the elucidation of pathologic differentiation. Bone, 2018, 109, 12-21.	1.4	56
38	Importance of Mineral and Bone Metabolism after Burn. , 2018, , 268-275.e2.		2
39	The Associations of Gender With Social Participation of Burn Survivors: A Life Impact Burn Recovery Evaluation Profile Study. Journal of Burn Care and Research, 2018, 39, 915-922.	0.2	19
40	Characterizing the Circulating Cell Populations in Traumatic Heterotopic Ossification. American Journal of Pathology, 2018, 188, 2464-2473.	1.9	28
41	Maestro macrophages conduct a widely disseminated symphony. Science Translational Medicine, 2018, 10, .	5.8	0
42	Scar Management of the Burned Hand. Hand Clinics, 2017, 33, 305-315.	0.4	29
43	Stem Cells and Tissue Engineering. Clinics in Plastic Surgery, 2017, 44, 635-650.	0.7	56
44	Sedation and Pain Management in Burn Patients. Clinics in Plastic Surgery, 2017, 44, 535-540.	0.7	79
45	Chemical, Electrical, and Radiation Injuries. Clinics in Plastic Surgery, 2017, 44, 657-669.	0.7	44
46	The traumatic bone: trauma-induced heterotopic ossification. Translational Research, 2017, 186, 95-111.	2.2	95
47	Hair follicle specific ACVR1/ALK2 critically affects skin morphogenesis and attenuates wound healing. Wound Repair and Regeneration, 2017, 25, 521-525.	1.5	8
48	Vermillion Reconstruction With Anal Verge Transitional Epithelium. Journal of Burn Care and Research, 2017, 39, 1.	0.2	0
49	Predicting Heterotopic Ossification Early After Burn Injuries. Annals of Surgery, 2017, 266, 179-184.	2.1	32
50	BMP-2-induced bone formation and neural inflammation. Journal of Orthopaedics, 2017, 14, 252-256.	0.6	51
51	Heterotopic Ossification Following Upper Extremity Injury. Hand Clinics, 2017, 33, 363-373.	0.4	21
52	Optimizing the Treatment of Burn Injuries of the Upper Extremity. Hand Clinics, 2017, 33, xiii.	0.4	0
53	Vascular patterning in human heterotopic ossification. Human Pathology, 2017, 63, 165-170.	1.1	28
54	Inhibition of Mammalian Target of Rapamycin Signaling with Rapamycin Prevents Trauma-Induced Heterotopic Ossification. American Journal of Pathology, 2017, 187, 2536-2545.	1.9	44

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55	Strategic Targeting of Multiple BMP Receptors Prevents Trauma-Induced Heterotopic Ossification. Molecular Therapy, 2017, 25, 1974-1987.	3.7	57
56	Peripheral Neuropathy and Nerve Compression Syndromes in Burns. Clinics in Plastic Surgery, 2017, 44, 793-803.	0.7	24
57	Traumatic muscle fibrosis. Journal of Trauma and Acute Care Surgery, 2017, 82, 174-184.	1.1	32
58	Heterotopic Ossification and Hypertrophic Scars. Clinics in Plastic Surgery, 2017, 44, 749-755.	0.7	30
59	Scleraxis-Lineage Cells Contribute to Ectopic Bone Formation in Muscle and Tendon. Stem Cells, 2017, 35, 705-710.	1.4	102
60	Surgical Excision of Heterotopic Ossification Leads to Re-Emergence of Mesenchymal Stem Cell Populations Responsible for Recurrence. Stem Cells Translational Medicine, 2017, 6, 799-806.	1.6	44
61	Combined reflectance and Raman spectroscopy to assess degree of inÂvivo angiogenesis after tissue injury. Journal of Surgical Research, 2017, 209, 174-177.	0.8	4
62	Evaluation of Salivary Cytokines for Diagnosis of both Trauma-Induced and Genetic Heterotopic Ossification. Frontiers in Endocrinology, 2017, 8, 74.	1.5	29
63	Macrophages take rheumatoid arthritis up a â€œNotchâ€• Science Translational Medicine, 2017, 9, .	5.8	9
64	â€œTrkAâ€•king why â€œno pain, no gainâ€•is the rule for bone formation. Science Translational Medicine, 2017, 9, .	5.8	5
65	â€œAMPâ€(K)ed up recovery from ischemia-reperfusion injury. Science Translational Medicine, 2017, 9, .	5.8	1
66	Burn injuries cast their nets in blood vessels. Science Translational Medicine, 2017, 9, .	5.8	1
67	Macrophage magic: Why more is better for skin wound healing. Science Translational Medicine, 2017, 9, .	5.8	2
68	Problems with mast transit. Science Translational Medicine, 2017, 9, .	5.8	0
69	Breaking free from the NETs. Science Translational Medicine, 2017, 9, .	5.8	0
70	Early Development of the Mouse Morphome. Journal of Craniofacial Surgery, 2016, 27, 621-626.	0.3	2
71	The Use of CO2 Fractional Photothermolysis for the Treatment of Burn Scars. Journal of Burn Care and Research, 2016, 37, 106-114.	0.2	72
72	Analysis of Bone-Cartilage-Stromal Progenitor Populations in Trauma Induced and Genetic Models of Heterotopic Ossification. Stem Cells, 2016, 34, 1692-1701.	1.4	27

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73	Translational treatment paradigm for managing nonâ€unions secondary to radiation injury utilizing adipose derived stem cells and angiogenic therapy. Head and Neck, 2016, 38, E837-43.	0.9	6
74	Trauma-induced heterotopic bone formation and the role of the immune system. Journal of Trauma and Acute Care Surgery, 2016, 80, 156-165.	1.1	82
75	Local and Circulating Endothelial Cells Undergo Endothelial to Mesenchymal Transition (EndMT) in Response to Musculoskeletal Injury. Scientific Reports, 2016, 6, 32514.	1.6	37
76	The role of the adaptive immune system in burn-induced heterotopic ossification and mesenchymal cell osteogenic differentiation. Journal of Surgical Research, 2016, 206, 53-61.	0.8	18
77	Frostbite: Spectrum of Imaging Findings and Guidelines for Management. Radiographics, 2016, 36, 2154-2169.	1.4	44
78	The potential roles for adipose tissue in peripheral nerve regeneration. Microsurgery, 2016, 36, 81-88.	0.6	23
79	Targeted stimulation of retinoic acid receptor-Î³ mitigates the formation of heterotopic ossification in an established blast-related traumatic injury model. Bone, 2016, 90, 159-167.	1.4	51
80	Obesity inhibits the osteogenic differentiation of human adipose-derived stem cells. Journal of Translational Medicine, 2016, 14, 27.	1.8	26
81	Inhibition of Hif1Î± prevents both trauma-induced and genetic heterotopic ossification. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E338-47.	3.3	178
82	mTOR inhibition and BMP signaling act synergistically to reduce muscle fibrosis and improve myofiber regeneration. JCI Insight, 2016, 1, e89805.	2.3	21
83	Characterization of Cells Isolated from Genetic and Trauma-Induced Heterotopic Ossification. PLoS ONE, 2016, 11, e0156253.	1.1	16
84	Direct Mouse Trauma/Burn Model of Heterotopic Ossification. Journal of Visualized Experiments, 2015, , e52880.	0.2	31
85	Role of Gender in Burn-Induced Heterotopic Ossification and Mesenchymal Cell Osteogenic Differentiation. Plastic and Reconstructive Surgery, 2015, 135, 1631-1641.	0.7	31
86	Risk factors for the development of heterotopic ossification in seriously burned adults. Journal of Trauma and Acute Care Surgery, 2015, 79, 870-876.	1.1	54
87	Characterization of Heterotopic Ossification Using Radiographic Imaging: Evidence for a Paradigm Shift. PLoS ONE, 2015, 10, e0141432.	1.1	14
88	Wound Healing After Thermal Injury Is Improved by Fat and Adipose-Derived Stem Cell Isografts. Journal of Burn Care and Research, 2015, 36, 70-76.	0.2	50
89	Raman spectroscopy for label-free identification of calciphylaxis. Journal of Biomedical Optics, 2015, 20, 080501.	1.4	11
90	Diminished Chondrogenesis and Enhanced Osteoclastogenesis in Leptin-Deficient Diabetic Mice (ob/ob) Impair Pathologic, Trauma-Induced Heterotopic Ossification. Stem Cells and Development, 2015, 24, 2864-2872.	1.1	17

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91	BMP signaling mediated by constitutively active Activin type 1 receptor (ACVR1) results in ectopic bone formation localized to distal extremity joints. Developmental Biology, 2015, 400, 202-209.	0.9	41
92	Role of Anatomical Region and Hypoxia on Angiogenic Markers in Adipose-Derived Stromal Cells. Journal of Reconstructive Microsurgery, 2015, 31, 132-138.	1.0	10
93	Heterotopic Ossification: Basic-Science Principles and Clinical Correlates. Journal of Bone and Joint Surgery - Series A, 2015, 97, 1101-1111.	1.4	280
94	Morphomic analysis as an aid for preoperative risk stratification in patients undergoing major head and neck cancer surgery. Journal of Surgical Research, 2015, 194, 177-184.	0.8	4
95	Photoactivated miR-148bâ€“nanoparticle conjugates improve closure of critical size mouse calvarial defects. Acta Biomaterialia, 2015, 12, 166-173.	4.1	53
96	Effects of Aging on Osteogenic Response and Heterotopic Ossification Following Burn Injury in Mice. Stem Cells and Development, 2015, 24, 205-213.	1.1	30
97	Abdominal wall dynamics after component separation hernia repair. Journal of Surgical Research, 2015, 193, 497-503.	0.8	28
98	Picking a bone with heterotopic ossification: translational progress current and future. Annals of Translational Medicine, 2015, 3, 188.	0.7	1
99	Bone Tissue Engineering and Regeneration. BioMed Research International, 2014, 2014, 1-2.	0.9	2
100	Adipose-Derived Mesenchymal Stem Cells from Ventral Hernia Repair Patients Demonstrate Decreased Vasculogenesis. BioMed Research International, 2014, 2014, 1-7.	0.9	6
101	Morphomic Analysis for Preoperative Donor Site Risk Assessment in Patients Undergoing Abdominal Perforator Flap Breast Reconstruction: A Proof of Concept Study. Journal of Reconstructive Microsurgery, 2014, 30, 635-640.	1.0	17
102	Treatment of heterotopic ossification through remote ATP hydrolysis. Science Translational Medicine, 2014, 6, 255ra132.	5.8	119
103	Temporalis muscle morphomics: the psoas of the craniofacial skeleton. Journal of Surgical Research, 2014, 186, 246-252.	0.8	60
104	Early detection of heterotopic ossification using nearâ€infrared optical imaging reveals dynamic turnover and progression of mineralization following Achilles tenotomy and burn injury. Journal of Orthopaedic Research, 2014, 32, 1416-1423.	1.2	28
105	Targeting of ALK2, a Receptor for Bone Morphogenetic Proteins, Using the Cre/lox System to Enhance Osseous Regeneration by Adipose-Derived Stem Cells. Stem Cells Translational Medicine, 2014, 3, 1375-1380.	1.6	9
106	Biology and Principles of Scar Management and Burn Reconstruction. Surgical Clinics of North America, 2014, 94, 793-815.	0.5	101
107	Cross-sectional area of the abdomen predicts complication incidence in patients undergoing sternal reconstruction. Journal of Surgical Research, 2014, 192, 670-677.	0.8	13
108	Use of Morphometric Assessment of Body Composition to Quantify Risk of Surgical-Site Infection in Patients Undergoing Component Separation Ventral Hernia Repair. Plastic and Reconstructive Surgery, 2014, 133, 559e-566e.	0.7	31

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109	Demystifying the U.S. Food and Drug Administration. Plastic and Reconstructive Surgery, 2014, 133, 1495-1501.	0.7	2
110	Burn Injury Enhances Bone Formation in Heterotopic Ossification Model. Annals of Surgery, 2014, 259, 993-998.	2.1	63
111	Early detection of burn induced heterotopic ossification using transcutaneous Raman spectroscopy. Bone, 2013, 54, 28-34.	1.4	78
112	Molecular Analysis and Differentiation Capacity of Adipose-Derived Stem Cells from Lymphedema Tissue. Plastic and Reconstructive Surgery, 2013, 132, 580-589.	0.7	38
113	Temporal Morphomics as a Model for Determining Preoperative Risk of Blood Transfusion in Nonsyndromic Craniosynostosis Patients. Plastic and Reconstructive Surgery, 2013, 132, 403e-412e.	0.7	3
114	Outcomes of Tethered Cord Repair With a Layered Soft Tissue Closure. Annals of Plastic Surgery, 2013, 70, 74-78.	0.5	9
115	Novel Temporalis Muscle and Fat Pad Morphomic Analyses Aids Preoperative Risk Evaluation and Outcome Assessment in Nonsyndromic Craniosynostosis. Journal of Craniofacial Surgery, 2013, 24, 250-255.	0.3	16
116	Cranial Suture Biology. Journal of Craniofacial Surgery, 2012, 23, 13-19.	0.3	43
117	Brief Review of Models of Ectopic Bone Formation. Stem Cells and Development, 2012, 21, 655-667.	1.1	168
118	Heterotopic Ossification Following Burn Injury. Journal of Burn Care and Research, 2012, 33, 463-470.	0.2	35
119	Enhancement of Human Adipose-Derived Stromal Cell Angiogenesis through Knockdown of a BMP-2 Inhibitor. Plastic and Reconstructive Surgery, 2012, 129, 53-66.	0.7	28
120	Stem Cells. Journal of Craniofacial Surgery, 2012, 23, 319-323.	0.3	16
121	In vivo directed differentiation of pluripotent stem cells for skeletal regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20379-20384.	3.3	116
122	Acute Skeletal Injury Is Necessary for Human Adipose-Derived Stromal Cellâ€“Mediated Calvarial Regeneration. Plastic and Reconstructive Surgery, 2011, 127, 1118-1129.	0.7	38
123	Differences in Osteogenic Differentiation of Adipose-Derived Stromal Cells from Murine, Canine, and Human Sources In Vitro and In Vivo. Plastic and Reconstructive Surgery, 2011, 128, 373-386.	0.7	50
124	Role of Indian Hedgehog Signaling in Palatal Osteogenesis. Plastic and Reconstructive Surgery, 2011, 127, 1182-1190.	0.7	28
125	Studies in Adipose-Derived Stromal Cells: Migration and Participation in Repair of Cranial Injury after Systemic Injection. Plastic and Reconstructive Surgery, 2011, 127, 1130-1140.	0.7	30
126	Osteogenic Differentiation of Adipose-Derived Stromal Cells in Mouse and Human. Journal of Craniofacial Surgery, 2011, 22, 388-391.	0.3	8

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127	CD105 Protein Depletion Enhances Human Adipose-derived Stromal Cell Osteogenesis through Reduction of Transforming Growth Factor Î²1 (TGF-Î²1) Signaling. Journal of Biological Chemistry, 2011, 286, 39497-39509.	1.6	144
128	Concise Review: Adipose-Derived Stromal Cells for Skeletal Regenerative Medicine. Stem Cells, 2011, 29, 576-582.	1.4	176
129	Dura Mater Stimulates Human Adipose-Derived Stromal Cells to Undergo Bone Formation in Mouse Calvarial Defects. Stem Cells, 2011, 29, 1241-1255.	1.4	92
130	Nonintegrating Knockdown and Customized Scaffold Design Enhances Human Adipose-Derived Stem Cells in Skeletal Repair. Stem Cells, 2011, 29, 2018-2029.	1.4	59
131	Palatogenesis. Organogenesis, 2011, 7, 242-254.	0.4	39
132	Human Adipose-Derived Stromal Cells Stimulate Autogenous Skeletal Repair via Paracrine Hedgehog Signaling with Calvarial Osteoblasts. Stem Cells and Development, 2011, 20, 243-257.	1.1	57
133	A Comparative Analysis of Tissue Expander Reconstruction of Burned and Unburned Chest and Breasts Using Endoscopic and Open Techniques. Plastic and Reconstructive Surgery, 2010, 125, 547-556.	0.7	20
134	Divergent Modulation of Adipose-Derived Stromal Cell Differentiation by TGF-Î²1 Based on Species of Derivation. Plastic and Reconstructive Surgery, 2010, 126, 412-425.	0.7	19
135	Use of Cross-Bone Strut Stabilization for Barrel Stave Osteotomies in Calvarial Reconstruction. Journal of Craniofacial Surgery, 2010, 21, 491-494.	0.3	7
136	Depot-Specific Variation in the Osteogenic and Adipogenic Potential of Human Adipose-Derived Stromal Cells. Plastic and Reconstructive Surgery, 2010, 126, 822-834.	0.7	54
137	Commentary. Aesthetic Surgery Journal, 2010, 30, 387-389.	0.9	0
138	Regulation of Human Adipose-Derived Stromal Cell Osteogenic Differentiation by Insulin-Like Growth Factor-1 and Platelet-Derived Growth Factor-Î±. Plastic and Reconstructive Surgery, 2010, 126, 41-52.	0.7	95
139	Human Adipose Derived Stromal Cells Heal Critical Size Mouse Calvarial Defects. PLoS ONE, 2010, 5, e11177.	1.1	255
140	Residentsâ€™ Views of Plastic Surgery in the Geriatric Population. Annals of Plastic Surgery, 2009, 63, 314-317.	0.5	4
141	Utilization of the Buccal Fat Pad Flap for Congenital Cleft Palate Repair. Plastic and Reconstructive Surgery, 2009, 123, 1018-1021.	0.7	66
142	Diagnosis and Management of Pressure Ulcers. Clinics in Plastic Surgery, 2007, 34, 735-748.	0.7	13
143	In Memory of Richard L. Gamelli. Journal of Burn Care and Research, 0, , .	0.2	0
144	Acetabular Reaming Is a Reliable Model to Produce and Characterize Periarticular Heterotopic Ossification of the Hip. Stem Cells Translational Medicine, 0, , .	1.6	4