

# Jerome Guicheux

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

213  
papers

8,588  
citations

56  
h-index

84  
g-index

280  
ext. papers

9,712  
ext. citations

5.5  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
213	Microgels based on Infernan, a glycosaminoglycan-mimetic bacterial exopolysaccharide, as BMP-2 delivery systems.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 284, 119191	10.3	2
212	Material-Assisted Strategies for Osteochondral Defect Repair.. <i>Advanced Science</i> , <b>2022</b> , e2200050	13.6	3
211	Comparison of MRI T1, T2, and T2* mapping with histology for assessment of intervertebral disc degeneration in an ovine model.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5398	4.9	0
210	Posttraumatic Osteoarthritis Damage in Mice: From Histological and Micro-Computed Tomodensitometric Changes to Gait Disturbance. <i>Cartilage</i> , <b>2021</b> , 19476035211053821	3	1
209	A partially demineralized allogeneic bone graft: in vitro osteogenic potential and preclinical evaluation in two different intramembranous bone healing models. <i>Scientific Reports</i> , <b>2021</b> , 11, 4907	4.9	1
208	An Fgfr3-activating mutation in immature murine osteoblasts affects the appendicular and craniofacial skeleton. <i>DMM Disease Models and Mechanisms</i> , <b>2021</b> , 14,	4.1	3
207	An Extrudable Partially Demineralized Allogeneic Bone Paste Exhibits a Similar Bone Healing Capacity as the "Gold Standard" Bone Graft. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 658853	5.8	0
206	Arthrose : des traitements d'aujourd'hui aux traitements de demain. <i>Revue Du Rhumatisme Monographies</i> , <b>2021</b> , 88, 165-171	0	
205	Collateral effects of targeting the nucleus pulposus via a transpedicular or transannular surgical route: a combined X-ray, MRI, and histological long-term descriptive study in sheep. <i>European Spine Journal</i> , <b>2021</b> , 30, 585-595	2.7	3
204	Isokinetic knee strength deficit in patients with moderate haemophilia. <i>Haemophilia</i> , <b>2021</b> , 27, 634-640	3.3	0
203	Correlation between magnetic resonance, X-ray imaging alterations and histological changes in an ovine model of age-related disc degeneration. <i>European Cells and Materials</i> , <b>2021</b> , 41, 166-178	4.3	1
202	Osteoarthritis: From upcoming treatments to treatments yet to come. <i>Joint Bone Spine</i> , <b>2021</b> , 88, 105206.9	6.9	1
201	Notochordal Cell-Based Treatment Strategies and Their Potential in Intervertebral Disc Regeneration.. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 780749	5.7	1
200	Controlled release of biological factors for endogenous progenitor cell migration and intervertebral disc extracellular matrix remodelling. <i>Biomaterials</i> , <b>2020</b> , 253, 120107	15.6	9
199	A Self-Setting Hydrogel of Silylated Chitosan and Cellulose for the Repair of Osteochondral Defects: From Characterization to Preclinical Evaluation in Dogs. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 23	5.8	6
198	NOTO Transcription Factor Directs Human Induced Pluripotent Stem Cell-Derived Mesendoderm Progenitors to a Notochordal Fate. <i>Cells</i> , <b>2020</b> , 9,	7.9	7
197	Degenerative lumbar disc disease: in vivo data support the rationale for the selection of appropriate animal models. <i>European Cells and Materials</i> , <b>2020</b> , 39, 18-47	4.3	5

196	Tailored Three-Dimensionally Printed Triply Periodic Calcium Phosphate Implants: A Preclinical Study for Craniofacial Bone Repair. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 553-563	5.5	13
195	Identification of TGF $\beta$ signatures in six murine models mimicking different osteoarthritis clinical phenotypes. <i>Osteoarthritis and Cartilage</i> , <b>2020</b> , 28, 1373-1384	6.2	5
194	Green and Tunable Animal Protein-Free Microcarriers for Cell Expansion. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50303-50314	9.5	1
193	Development of a Rat Model of Mandibular Irradiation Sequelae for Preclinical Studies of Bone Repair. <i>Tissue Engineering - Part C: Methods</i> , <b>2020</b> , 26, 447-455	2.9	
192	In Situ Forming, Silanized Hyaluronic Acid Hydrogels with Fine Control Over Mechanical Properties and In Vivo Degradation for Tissue Engineering Applications. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e2000981	10.1	2
191	Lessons learned from intervertebral disc pathophysiology to guide rational design of sequential delivery systems for therapeutic biological factors. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 149-150, 49-71	18.5	28
190	Comparing "intra operative" tissue engineering strategies for the repair of craniofacial bone defects. <i>Journal of Stomatology, Oral and Maxillofacial Surgery</i> , <b>2019</b> , 120, 432-442	1.7	4
189	Microcarriers Based on Glycosaminoglycan-Like Marine Exopolysaccharide for TGF- $\beta$ Long-Term Protection. <i>Marine Drugs</i> , <b>2019</b> , 17,	6	12
188	Heparan Sulfate Mimetics: A New Way to Optimize Therapeutic Effects of Hydrogel-Embedded Mesenchymal Stromal Cells in Colonic Radiation-Induced Damage. <i>Scientific Reports</i> , <b>2019</b> , 9, 164	4.9	4
187	Human Enriched Serum Following Hydrolysed Collagen Absorption Modulates Bone Cell Activity: from Bedside to Bench and Vice Versa. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	9
186	In vitro and in vivo evaluation of an electrospun-aligned microfibrillar implant for Annulus fibrosus repair. <i>Biomaterials</i> , <b>2019</b> , 205, 81-93	15.6	35
185	Optimized Bioactive Glass: the Quest for the Bony Graft. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801542	14.1	16
184	Slc20a2, Encoding the Phosphate Transporter PiT2, Is an Important Genetic Determinant of Bone Quality and Strength. <i>Journal of Bone and Mineral Research</i> , <b>2019</b> , 34, 1101-1114	6.3	18
183	IL-36 is a pivotal inflammatory player in periodontitis-associated bone loss. <i>Scientific Reports</i> , <b>2019</b> , 9, 19257	4.9	4
182	Chondroprotective Properties of Human-Enriched Serum Following Polyphenol Extract Absorption: Results from an Exploratory Clinical Trial. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	7
181	Chasing Chimeras - The elusive stable chondrogenic phenotype. <i>Biomaterials</i> , <b>2019</b> , 192, 199-225	15.6	22
180	PiT1/Slc20a1 Is Required for Endoplasmic Reticulum Homeostasis, Chondrocyte Survival, and Skeletal Development. <i>Journal of Bone and Mineral Research</i> , <b>2019</b> , 34, 387-398	6.3	22
179	Intervertebral disc regeneration: From cell therapy to the development of novel bioinspired endogenous repair strategies. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 146, 306-324	18.5	59

178	Assessing glucose and oxygen diffusion in hydrogels for the rational design of 3D stem cell scaffolds in regenerative medicine. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 1238-1246	4.4	43
177	Phosphate (P)-regulated heterodimerization of the high-affinity sodium-dependent P transporters PiT1/Slc20a1 and PiT2/Slc20a2 underlies extracellular P sensing independently of P uptake. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 2102-2114	5.4	60
176	Phosphate-dependent FGF23 secretion is modulated by PiT2/Slc20a2. <i>Molecular Metabolism</i> , <b>2018</b> , 11, 197-204	8.8	41
175	Expression of Phosphate Transporters during Dental Mineralization. <i>Journal of Dental Research</i> , <b>2018</b> , 97, 209-217	8.1	7
174	Role of the Inflammation-Autophagy-Senescence Integrative Network in Osteoarthritis. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 706	4.6	62
173	A Cellulose/Laponite Interpenetrated Polymer Network (IPN) Hydrogel: Controllable Double-Network Structure with High Modulus. <i>Polymers</i> , <b>2018</b> , 10,	4.5	7
172	Clinical relevance of 3D gait analysis in patients with haemophilia. <i>Haemophilia</i> , <b>2018</b> , 24, 703-710	3.3	5
171	State of art and limitations in genetic engineering to induce stable chondrogenic phenotype. <i>Biotechnology Advances</i> , <b>2018</b> , 36, 1855-1869	17.8	13
170	Effect of Subclinical and Overt Form of Rat Maternal Hypothyroidism on Offspring Endochondral Bone Formation. <i>Acta Veterinaria</i> , <b>2018</b> , 68, 301-320	0.9	1
169	Innovative strategies for intervertebral disc regenerative medicine: From cell therapies to multiscale delivery systems. <i>Biotechnology Advances</i> , <b>2018</b> , 36, 281-294	17.8	52
168	Laponite nanoparticle-associated silylated hydroxypropylmethyl cellulose as an injectable reinforced interpenetrating network hydrogel for cartilage tissue engineering. <i>Acta Biomaterialia</i> , <b>2018</b> , 65, 112-122	10.8	72
167	Application of Millifluidics to Encapsulate and Support Viable Human Mesenchymal Stem Cells in a Polysaccharide Hydrogel. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	5
166	Enriching a cellulose hydrogel with a biologically active marine exopolysaccharide for cell-based cartilage engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 1152-1164	4.4	31
165	Neu5Gc and $\beta$ -3 GAL Xenoantigen Knockout Does Not Affect Glycemia Homeostasis and Insulin Secretion in Pigs. <i>Diabetes</i> , <b>2017</b> , 66, 987-993	0.9	19
164	Silica nanofibers as a new drug delivery system: a study of the protein-silica interactions. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 2908-2920	7.3	17
163	Autologous fat grafting: A comparative study of four current commercial protocols. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , <b>2017</b> , 70, 248-256	1.7	10
162	Biomaterial-assisted cell therapy in osteoarthritis: From mesenchymal stem cells to cell encapsulation. <i>Best Practice and Research in Clinical Rheumatology</i> , <b>2017</b> , 31, 730-745	5.3	15
161	Toward the development of biomimetic injectable and macroporous biohydrogels for regenerative medicine. <i>Advances in Colloid and Interface Science</i> , <b>2017</b> , 247, 589-609	14.3	46

160	Si-HPMC/Si-Chitosan hybrid hydrogel for cartilage regenerative medicine: From in vitro to in vivo assessments in nude mice and canine model of osteochondral defects. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, S77	6.2	3
159	Pullulan microbeads/Si-HPMC hydrogel injectable system for the sustained delivery of GDF-5 and TGF- $\beta$ : new insight into intervertebral disc regenerative medicine. <i>Drug Delivery</i> , <b>2017</b> , 24, 999-1010	7	19
158	The transpedicular surgical approach for the development of intervertebral disc targeting regenerative strategies in an ovine model. <i>European Spine Journal</i> , <b>2017</b> , 26, 2072-2083	2.7	11
157	Pharmacologically active microcarriers delivering BDNF within a hydrogel: Novel strategy for human bone marrow-derived stem cells neural/neuronal differentiation guidance and therapeutic secretome enhancement. <i>Acta Biomaterialia</i> , <b>2017</b> , 49, 167-180	10.8	34
156	A biomaterial-assisted mesenchymal stromal cell therapy alleviates colonic radiation-induced damage. <i>Biomaterials</i> , <b>2017</b> , 115, 40-52	15.6	32
155	Polysaccharide Hydrogels Support the Long-Term Viability of Encapsulated Human Mesenchymal Stem Cells and Their Ability to Secrete Immunomodulatory Factors. <i>Stem Cells International</i> , <b>2017</b> , 2017, 9303598	5	12
154	Bone marrow cell extract promotes the regeneration of irradiated bone. <i>PLoS ONE</i> , <b>2017</b> , 12, e0178060	3.7	4
153	Purification of the exopolysaccharide produced by <i>Alteromonas infernus</i> : identification of endotoxins and effective process to remove them. <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 6597-6606	5.7	10
152	Osteoarthritis: from pathogenic mechanisms and recent clinical developments to novel prospective therapeutic options. <i>Drug Discovery Today</i> , <b>2016</b> , 21, 1932-1937	8.8	53
151	Assessment and Quantification of Noncollagenic Matrix Proteins Released from Human Dentin Powder Incorporated into a Silated Hydroxypropylmethylcellulose Biomedical Hydrogel. <i>Journal of Endodontics</i> , <b>2016</b> , 42, 1371-6	4.7	7
150	Generation of human nucleus pulposus cells from stem cells: First steps towards intervertebral disc regeneration.. <i>Osteoarthritis and Cartilage</i> , <b>2016</b> , 24, S11-S12	6.2	3
149	Maintenance of chondrocyte survival by PIT1/SLC20A1-mediated regulation of endoplasmic reticulum homeostasis. <i>Osteoarthritis and Cartilage</i> , <b>2016</b> , 24, S135	6.2	2
148	Vascular imaging with contrast agent in hard and soft tissues using microcomputed-tomography. <i>Journal of Microscopy</i> , <b>2016</b> , 262, 40-9	1.9	15
147	Interleukin-33 and RANK-L Interplay in the Alveolar Bone Loss Associated to Periodontitis. <i>PLoS ONE</i> , <b>2016</b> , 11, e0168080	3.7	26
146	Periostin-deficient mice, a relevant animal model to investigate periodontitis or not?. <i>BoneKEY Reports</i> , <b>2016</b> , 5, 794		1
145	Longitudinal Comparison of Enzyme- and Laser-Treated Intervertebral Disc by MRI, X-Ray, and Histological Analyses Reveals Discrepancies in the Progression of Disc Degeneration: A Rabbit Study. <i>BioMed Research International</i> , <b>2016</b> , 2016, 5498271	3	8
144	TGF- $\beta$ and GDF5 Act Synergistically to Drive the Differentiation of Human Adipose Stromal Cells toward Nucleus Pulposus-like Cells. <i>Stem Cells</i> , <b>2016</b> , 34, 653-67	5.8	50
143	Ageing in the musculoskeletal system. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2016</b> , 87, 15-25	4.3	46

142	Olive and grape seed extract prevents post-traumatic osteoarthritis damages and exhibits in vitro anti-IL-1 $\beta$ activities before and after oral consumption. <i>Scientific Reports</i> , <b>2016</b> , 6, 33527	4.9	24
141	Cartilage tissue engineering: From biomaterials and stem cells to osteoarthritis treatments. <i>Annals of Physical and Rehabilitation Medicine</i> , <b>2016</b> , 59, 139-144	3.8	140
140	Interpenetrated Si-HPMC/alginate hydrogels as a potential scaffold for human tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2016</b> , 27, 99	4.5	9
139	Dendritic-cell-derived osteoclasts: a new game changer in bone-resorption-associated diseases. <i>Drug Discovery Today</i> , <b>2016</b> , 21, 1345-1354	8.8	25
138	Expression of phosphate transporters in optimized cell culture models for dental cells biomineralization. <i>Bulletin Du Groupement International Pour La Recherche Scientifique En Stomatologie &amp; Odontologie</i> , <b>2016</b> , 53, e16		3
137	Development of a cyclosporin-A-induced immune tolerant rat model to test marrow allograft cell type effects on bone repair. <i>Calcified Tissue International</i> , <b>2015</b> , 96, 430-7	3.9	3
136	Proliferation And Differentiation Potential Of Canine Synovial Fluid Cells. <i>Acta Veterinaria</i> , <b>2015</b> , 65, 66-78	0.9	1
135	Wnt5a is expressed in spondyloarthritis and exerts opposite effects on enthesis and bone in murine organ and cell cultures. <i>Translational Research</i> , <b>2015</b> , 166, 627-38	11	8
134	Autologous Fat Grafting in the Breast: Critical Points and Technique Improvements. <i>Aesthetic Plastic Surgery</i> , <b>2015</b> , 39, 547-61	2	28
133	Role of the stromal vascular fraction from adipose tissue in association with a phosphocalcic scaffold in bone regeneration in an irradiated area. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2015</b> , 43, 1169-76	3.6	4
132	Sustained release of TGF- $\beta$ from biodegradable microparticles prepared by a new green process in CO <sub>2</sub> medium. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 493, 357-65	6.5	6
131	Direct comparison of current cell-based and cell-free approaches towards the repair of craniofacial bone defects - A preclinical study. <i>Acta Biomaterialia</i> , <b>2015</b> , 26, 306-17	10.8	12
130	Micro-CT Analysis of Radiation-Induced Osteopenia and Bone Hypovascularization in Rat. <i>Calcified Tissue International</i> , <b>2015</b> , 97, 62-8	3.9	18
129	Development of mandibular osteoradionecrosis in rats: Importance of dental extraction. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , <b>2015</b> , 43, 1829-36	3.6	16
128	Inverse regulation of early and late chondrogenic differentiation by oxygen tension provides cues for stem cell-based cartilage tissue engineering. <i>Cellular Physiology and Biochemistry</i> , <b>2015</b> , 35, 841-57	3.9	29
127	Nutraceuticals in joint health: animal models as instrumental tools. <i>Drug Discovery Today</i> , <b>2014</b> , 19, 1649-58	8.8	11
126	Intervertebral disc regeneration: a great challenge for tissue engineers. <i>Trends in Biotechnology</i> , <b>2014</b> , 32, 433-5	15.1	28
125	Osteoinduction of biphasic calcium phosphate scaffolds in a nude mouse model. <i>Journal of Biomaterials Applications</i> , <b>2014</b> , 29, 595-604	2.9	23



124	Evaluation of new bone formation in irradiated areas using association of mesenchymal stem cells and total fresh bone marrow mixed with calcium phosphate scaffold. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 2711-20	4.5	11
123	Age-related changes in the articular cartilage of the stifle joint in non-working and working German Shepherd dogs. <i>Journal of Comparative Pathology</i> , <b>2014</b> , 151, 363-74	1	8
122	The in vitro and in vivo effects of a low-molecular-weight fucoidan on the osteogenic capacity of human adipose-derived stromal cells. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 275-84	3.9	18
121	The in vitro effects of procyanidins and hydroxytyrosol-containing grape and olive extract mix on the inflammation-associated osteoarthritis processes. <i>Osteoarthritis and Cartilage</i> , <b>2014</b> , 22, S323	6.2	2
120	The lumbar intervertebral disc: from embryonic development to degeneration. <i>Joint Bone Spine</i> , <b>2014</b> , 81, 125-9	2.9	93
119	Nanocomposite hydrogels for cartilage tissue engineering: mesoporous silica nanofibers interlinked with siloxane derived polysaccharide. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2013</b> , 24, 1875-84	4.5	40
118	Le disque intervertébral lombal: du développement embryonnaire à la dégénérescence. <i>Revue Du Rhumatisme Monographies</i> , <b>2013</b> , 80, 210-214	0	
117	Aspects morphologique, structural et fonctionnel du disque intervertébral lombal. <i>Revue Du Rhumatisme Monographies</i> , <b>2013</b> , 80, 204-209	0	
116	The free fatty acid receptor G protein-coupled receptor 40 (GPR40) protects from bone loss through inhibition of osteoclast differentiation. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 6542-51	5.4	66
115	La médecine régénératrice du disque intervertébral: panacée ou illusion?. <i>Revue Du Rhumatisme Monographies</i> , <b>2013</b> , 80, 260-265	0	
114	Effects of in vitro low oxygen tension preconditioning of adipose stromal cells on their in vivo chondrogenic potential: application in cartilage tissue repair. <i>PLoS ONE</i> , <b>2013</b> , 8, e62368	3.7	58
113	The polyphenol fisetin protects bone by repressing NF- $\kappa$ B and MKP-1-dependent signaling pathways in osteoclasts. <i>PLoS ONE</i> , <b>2013</b> , 8, e68388	3.7	46
112	Determining a clinically relevant strategy for bone tissue engineering: an "all-in-one" study in nude mice. <i>PLoS ONE</i> , <b>2013</b> , 8, e81599	3.7	11
111	Mice with hypomorphic expression of the sodium-phosphate cotransporter PiT1/Slc20a1 have an unexpected normal bone mineralization. <i>PLoS ONE</i> , <b>2013</b> , 8, e65979	3.7	29
110	Molecular effects of gallium on osteoclastic differentiation of mouse and human monocytes. <i>Biochemical Pharmacology</i> , <b>2012</b> , 83, 671-9	6	21
109	Assay of in vitro osteoclast activity on dentine, and synthetic calcium phosphate bone substitutes. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 797-803	4.5	6
108	Laser-treated Nucleus pulposus as an innovative model of intervertebral disc degeneration. <i>Experimental Biology and Medicine</i> , <b>2012</b> , 237, 1359-67	3.7	4
107	Involvement of PiT1 and PiT2 in the phosphate sensing in osteoblastic cells. <i>Bone</i> , <b>2012</b> , 50, S70	4.7	2

106	Cellules souches et biomatériaux injectables pour la médecine régénératrice du cartilage: le consortium «'chondrograft'». <i>Irbm</i> , <b>2012</b> , 33, 92-97	4.8	
105	Controlling the biological function of calcium phosphate bone substitutes with drugs. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 3541-51	10.8	62
104	Intramyocardial delivery of mesenchymal stem cell-seeded hydrogel preserves cardiac function and attenuates ventricular remodeling after myocardial infarction. <i>PLoS ONE</i> , <b>2012</b> , 7, e51991	3.7	66
103	Pharmacological modulation of human mesenchymal stem cell chondrogenesis by a chemically oversulfated polysaccharide of marine origin: potential application to cartilage regenerative medicine. <i>Stem Cells</i> , <b>2012</b> , 30, 471-80	5.8	52
102	In vivo experimental imaging of osteochondral defects and their healing using (99m)Tc-NTP 15-5 radiotracer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2012</b> , 39, 1169-72	8.8	7
101	Health claims assessment in the field of joint and cartilage: a consensus viewpoint of the Group for the Respect of Ethics and Excellence in Science. <i>Current Medical Research and Opinion</i> , <b>2012</b> , 28, 611-6	2.5	1
100	Phosphate-dependent stimulation of MGP and OPN expression in osteoblasts via the ERK1/2 pathway is modulated by calcium. <i>Bone</i> , <b>2011</b> , 48, 894-902	4.7	92
99	The effect of two- and three-dimensional cell culture on the chondrogenic potential of human adipose-derived mesenchymal stem cells after subcutaneous transplantation with an injectable hydrogel. <i>Cell Transplantation</i> , <b>2011</b> , 20, 1575-88	4	67
98	Persistent lipid abnormalities in statin-treated patients with diabetes mellitus in Europe and Canada: results of the Dyslipidaemia International Study. <i>Diabetic Medicine</i> , <b>2011</b> , 28, 1343-51	3.5	62
97	Cell-specific effects of TNF- $\alpha$ and IL-1 $\beta$ on alkaline phosphatase: implication for syndesmophyte formation and vascular calcification. <i>Laboratory Investigation</i> , <b>2011</b> , 91, 1434-42	5.9	57
96	Inorganic phosphate stimulates apoptosis in murine MO6-G3 odontoblast-like cells. <i>Archives of Oral Biology</i> , <b>2011</b> , 56, 977-83	2.8	14
95	Na-doped $\beta$ -tricalcium phosphate: physico-chemical and in vitro biological properties. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 593-600	4.5	11
94	The emergence of phosphate as a specific signaling molecule in bone and other cell types in mammals. <i>Cellular and Molecular Life Sciences</i> , <b>2011</b> , 68, 205-18	10.3	120
93	An injectable vehicle for nucleus pulposus cell-based therapy. <i>Biomaterials</i> , <b>2011</b> , 32, 2862-70	15.6	161
92	Characterization of the age-dependent intervertebral disc changes in rabbit by correlation between MRI, histology and gene expression. <i>BMC Musculoskeletal Disorders</i> , <b>2011</b> , 12, 147	2.8	22
91	Articular cartilage calcification in osteoarthritis: insights into crystal-induced stress. <i>Arthritis and Rheumatism</i> , <b>2011</b> , 63, 10-8		97
90	Behaviour of mesenchymal stem cells, fibroblasts and osteoblasts on smooth surfaces. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 1525-34	10.8	70
89	An in vitro study of two GAG-like marine polysaccharides incorporated into injectable hydrogels for bone and cartilage tissue engineering. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 2119-30	10.8	23



88	Gallium modulates osteoclastic bone resorption in vitro without affecting osteoblasts. <i>British Journal of Pharmacology</i> , <b>2010</b> , 159, 1681-92	8.6	42
87	Cartilage tissue engineering: From hydrogel to mesenchymal stem cells. <i>Bio-Medical Materials and Engineering</i> , <b>2010</b> , 20, 159-66	1	7
86	Differential effects of hypoxia on osteochondrogenic potential of human adipose-derived stem cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2010</b> , 298, C355-64	5.4	98
85	Hydrogels for Cartilage Tissue Engineering <b>2010</b> , 247-268		5
84	In vivo bone augmentation in an osteoporotic environment using bisphosphonate-loaded calcium deficient apatite. <i>Biomaterials</i> , <b>2010</b> , 31, 7776-84	15.6	77
83	Calcium phosphate biomaterials as bone drug delivery systems: a review. <i>Drug Discovery Today</i> , <b>2010</b> , 15, 547-52	8.8	161
82	Identification of phenotypic discriminating markers for intervertebral disc cells and articular chondrocytes. <i>Rheumatology</i> , <b>2009</b> , 48, 1447-50	3.9	61
81	Cartilage engineering: a crucial combination of cells, biomaterials and biofactors. <i>Trends in Biotechnology</i> , <b>2009</b> , 27, 307-14	15.1	360
80	From osteoarthritis treatments to future regenerative therapies for cartilage. <i>Drug Discovery Today</i> , <b>2009</b> , 14, 913-25	8.8	93
79	The intervertebral disc: from pathophysiology to tissue engineering. <i>Joint Bone Spine</i> , <b>2009</b> , 76, 614-8	2.9	56
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