

Ivan Martin

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.

311 papers	21,362 citations	77 h-index	137 g-index
397 ext. papers	23,614 ext. citations	6.9 avg, IF	6.57 L-index

#	Paper	IF	Citations
311	Engineering of Tracheal Grafts Based on Recellularization of Laser-Engraved Human Airway Cartilage Substrates.. <i>Cartilage</i> , 2022 , 13, 19476035221075951	3	1
310	Repair of a Rat Mandibular Bone Defect by Hypertrophic Cartilage Grafts Engineered From Human Fractionated Adipose Tissue.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 841690	5.8	0
309	Perfusion-Based Bioreactor Culture and Isothermal Microcalorimetry for Preclinical Drug Testing with the Carbonic Anhydrase Inhibitor SLC-0111 in Patient-Derived Neuroblastoma.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	3
308	Intervertebral Disc-on-a-Chip as Advanced Model for Mechanobiology Research and Drug Testing: A Review and Perspective.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 826867	5.8	1
307	Thymus Extracellular Matrix-Derived Scaffolds Support Graft-Resident Thymopoiesis and Long-Term In Vitro Culture of Adult Thymic Epithelial Cells. <i>Advanced Functional Materials</i> , 2021 , 31, 2010747	15.6	4
306	Nasal Chondrocyte-Based Engineered Grafts for the Repair of Articular Cartilage "Kissing" Lesions: A Pilot Large-Animal Study. <i>American Journal of Sports Medicine</i> , 2021 , 49, 2187-2198	6.8	0
305	Mesenchymal stromal cell variables influencing clinical potency: the impact of viability, fitness, route of administration and host predisposition. <i>Cytotherapy</i> , 2021 , 23, 368-372	4.8	8
304	Consensus International Council for Commonality in Blood Banking Automation-International Society for Cell & Gene Therapy statement on standard nomenclature abbreviations for the tissue of origin of mesenchymal stromal cells. <i>Cytotherapy</i> , 2021 , 23, 1060-1063	4.8	3
303	Optimization of hyaluronic acid-tyramine/silk-fibroin composite hydrogels for cartilage tissue engineering and delivery of anti-inflammatory and anabolic drugs. <i>Materials Science and Engineering C</i> , 2021 , 120, 111701	8.3	27
302	The Survey on Cellular and Tissue-Engineered Therapies in Europe in 2016 and 2017. <i>Tissue Engineering - Part A</i> , 2021 , 27, 336-350	3.9	2
301	Engineering of fully humanized and vascularized 3D bone marrow niches sustaining undifferentiated human cord blood hematopoietic stem and progenitor cells. <i>Journal of Tissue Engineering</i> , 2021 , 12, 20417314211044855	7.5	4
300	From Autologous Flaps to Engineered Vascularized Grafts for Bone Regeneration. <i>Reference Series in Biomedical Engineering</i> , 2021 , 521-554		
299	Nose to Spine: spheroids generated by human nasal chondrocytes for scaffold-free nucleus pulposus augmentation. <i>Acta Biomaterialia</i> , 2021 , 134, 240-251	10.8	3
298	From Single Batch to Mass Production-Automated Platform Design Concept for a Phase II Clinical Trial Tissue Engineered Cartilage Product. <i>Frontiers in Medicine</i> , 2021 , 8, 712917	4.9	1
297	Engineered nasal cartilage for the repair of osteoarthritic knee cartilage defects. <i>Science Translational Medicine</i> , 2021 , 13, eaaz4499	17.5	3
296	Culturing patient-derived malignant hematopoietic stem cells in engineered and fully humanized 3D niches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
295	Manufacturing of Human Tissues as off-the-Shelf Grafts Programmed to Induce Regeneration. <i>Advanced Materials</i> , 2021 , 33, e2103737	24	6

294	Modeling In Vitro Osteoarthritis Phenotypes in a Vascularized Bone Model Based on a Bone-Marrow Derived Mesenchymal Cell Line and Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
293	Chronic inflammation and extracellular matrix-specific autoimmunity following inadvertent periarticular influenza vaccination. <i>Journal of Autoimmunity</i> , 2021 , 124, 102714	15.5	0
292	Biomimetic human bone marrow tissues: models to study hematopoiesis and platforms for drug testing.. <i>Molecular and Cellular Oncology</i> , 2021 , 8, 2007030	1.2	0
291	Case Report: Reconstruction of a Large Maxillary Defect With an Engineered, Vascularized, Prefabricated Bone Graft.. <i>Frontiers in Oncology</i> , 2021 , 11, 775136	5.3	0
290	Cell-based therapies for coronavirus disease 2019: proper clinical investigations are essential. <i>Cytotherapy</i> , 2020 , 22, 602-605	4.8	23
289	Extracellular Matrix Production by Mesenchymal Stromal Cells in Hydrogels Facilitates Cell Spreading and Is Inhibited by FGF-2. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901669	10.1	17
288	Anti-Inflammatory and Chondroprotective Effects of Vanillic Acid and Epimedin C in Human Osteoarthritic Chondrocytes. <i>Biomolecules</i> , 2020 , 10,	5.9	15
287	Human dental pulp stem cells exhibit enhanced properties in comparison to human bone marrow stem cells on neurites outgrowth. <i>FASEB Journal</i> , 2020 , 34, 5499-5511	0.9	17
286	Expandierte Zellen, Knochenmark, Fettgewebe: Was ist in der Schweiz (nicht) erlaubt?. <i>Arthroskopie</i> , 2020 , 33, 89-93	0.1	1
285	Biomarker Signatures of Quality for Engineering Nasal Chondrocyte-Derived Cartilage. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 283	5.8	7
284	Reply to comment on: Mumme M, et al. Tissue engineering for paediatric patients. <i>Swiss Med Wkly</i> . 2019.149.w20032. <i>Swiss Medical Weekly</i> , 2020 , 150, w20240	3.1	
283	Dispersion of ceramic granules within human fractionated adipose tissue to enhance endochondral bone formation. <i>Acta Biomaterialia</i> , 2020 , 102, 458-467	10.8	8
282	Intra-individual comparison of human nasal chondrocytes and debrided knee chondrocytes: Relevance for engineering autologous cartilage grafts. <i>Clinical Hemorheology and Microcirculation</i> , 2020 , 74, 67-78	2.5	10
281	Orthotopic Bone Formation by Streamlined Engineering and Devitalization of Human Hypertrophic Cartilage. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
280	Platelet-rich plasma and stromal vascular fraction cells for the engineering of axially vascularized osteogenic grafts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020 , 14, 1908-1917	4.4	2
279	Advanced Bioink for 3D Bioprinting of Complex Free-Standing Structures with High Stiffness. <i>Bioengineering</i> , 2020 , 7,	5.3	12
278	Sensing tissue engineered cartilage quality with Raman spectroscopy and statistical learning for the development of advanced characterization assays. <i>Biosensors and Bioelectronics</i> , 2020 , 166, 112467	11.8	3
277	Comparison of Human Articular Cartilage Tissue and Chondrocytes Isolated from Peripheral versus Central Regions of Traumatic Lesions. <i>Cartilage</i> , 2020 , 1947603520958154	3	1

276	Blockage of bone morphogenetic protein signalling counteracts hypertrophy in a human osteoarthritic micro-cartilage model. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	4
275	Bioreactor-manufactured cartilage grafts repair acute and chronic osteochondral defects in large animal studies. <i>Cell Proliferation</i> , 2019 , 52, e12653	7.9	9
274	Magnetic nanocomposite hydrogels and static magnetic field stimulate the osteoblastic and vasculogenic profile of adipose-derived cells. <i>Biomaterials</i> , 2019 , 223, 119468	15.6	49
273	Fate Distribution and Regulatory Role of Human Mesenchymal Stromal Cells in Engineered Hematopoietic Bone Organs. <i>iScience</i> , 2019 , 19, 504-513	6.1	11
272	Challenges Toward the Identification of Predictive Markers for Human Mesenchymal Stromal Cells Chondrogenic Potential. <i>Stem Cells Translational Medicine</i> , 2019 , 8, 194-204	6.9	11
271	Hyperphysiological compression of articular cartilage induces an osteoarthritic phenotype in a cartilage-on-a-chip model. <i>Nature Biomedical Engineering</i> , 2019 , 3, 545-557	19	80
270	Maintenance of Primary Human Colorectal Cancer Microenvironment Using a Perfusion Bioreactor-Based 3D Culture System. <i>Advanced Biology</i> , 2019 , 3, e1800300	3.5	12
269	Nose to back: compatibility of nasal chondrocytes with environmental conditions mimicking a degenerated intervertebral disc. <i>European Cells and Materials</i> , 2019 , 37, 214-232	4.3	9
268	Mesenchymal stem versus stromal cells: International Society for Cell & Gene Therapy (ISCT) Mesenchymal Stromal Cell committee position statement on nomenclature. <i>Cytotherapy</i> , 2019 , 21, 1019-1024	4.8	220
267	Extracellular Matrices to Modulate the Innate Immune Response and Enhance Bone Healing. <i>Frontiers in Immunology</i> , 2019 , 10, 2256	8.4	12
266	Mesenchymal stromal cell activation by breast cancer secretomes in bioengineered 3D microenvironments. <i>Life Science Alliance</i> , 2019 , 2,	5.8	20
265	Raman spectroscopy quality controls for GMP compliant manufacturing of tissue engineered cartilage 2019 ,		1
264	Tissue engineering for paediatric patients. <i>Swiss Medical Weekly</i> , 2019 , 149, w20032	3.1	3
263	Challenges for mesenchymal stromal cell therapies. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	83
262	Roadmap and Challenges for Investigator Initiated Clinical Trials With Advanced Therapy Medicinal Products (ATMPs) 2019 , 57-57		0
261	Regulation of Inflammatory Response in Human Osteoarthritic Chondrocytes by Novel Herbal Small Molecules. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	13
260	Improved Adipocyte Viability in Autologous Fat Grafting With Ascorbic Acid-Supplemented Tumescence Solution. <i>Annals of Plastic Surgery</i> , 2019 , 83, 464-467	1.7	3
259	Organs by design: can bioprinting meet self-organization?. <i>Current Opinion in Organ Transplantation</i> , 2019 , 24, 562-567	2.5	6

258	Prefabrication of a large pedicled bone graft by engineering the germ for de novo vascularization and osteoinduction. <i>Biomaterials</i> , 2019 , 192, 118-127	15.6	17
257	Engineering Human Bone Marrow Proxies. <i>Cell Stem Cell</i> , 2018 , 22, 298-301	18	17
256	Developmentally inspired programming of adult human mesenchymal stromal cells toward stable chondrogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4625-4630	11.5	36
255	Mouse and human HSPC immobilization in liquid culture by CD43- or CD44-antibody coating. <i>Blood</i> , 2018 , 131, 1425-1429	2.2	15
254	Interplay between stiffness and degradation of architected gelatin hydrogels leads to differential modulation of chondrogenesis in vitro and in vivo. <i>Acta Biomaterialia</i> , 2018 , 69, 83-94	10.8	34
253	Delivery of cellular factors to regulate bone healing. <i>Advanced Drug Delivery Reviews</i> , 2018 , 129, 285-294	18.5	34
252	Wet milling of large quantities of human excision adipose tissue for the isolation of stromal vascular fraction cells. <i>Cytotechnology</i> , 2018 , 70, 807-817	2.2	1
251	Engineered humanized bone organs maintain human hematopoiesis in vivo. <i>Experimental Hematology</i> , 2018 , 61, 45-51.e5	3.1	14
250	Spatially confined induction of endochondral ossification by functionalized hydrogels for ectopic engineering of osteochondral tissues. <i>Biomaterials</i> , 2018 , 171, 219-229	15.6	40
249	Decoration of RGD-mimetic porous scaffolds with engineered and devitalized extracellular matrix for adipose tissue regeneration. <i>Acta Biomaterialia</i> , 2018 , 73, 154-166	10.8	10
248	From Tissue Engineering to Regenerative Surgery. <i>EBioMedicine</i> , 2018 , 28, 11-12	8.8	8
247	Ectopic bone formation by aggregated mesenchymal stem cells from bone marrow and adipose tissue: A comparative study. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e150-e158	4.4	46
246	The survey on cellular and tissue-engineered therapies in Europe and neighboring Eurasian countries in 2014 and 2015. <i>Cytotherapy</i> , 2018 , 20, 1-20	4.8	10
245	Pre-transplantational Control of the Post-transplantational Fate of Human Pluripotent Stem Cell-Derived Cartilage. <i>Stem Cell Reports</i> , 2018 , 11, 440-453	8	9
244	Fractionated human adipose tissue as a native biomaterial for the generation of a bone organ by endochondral ossification. <i>Acta Biomaterialia</i> , 2018 , 77, 142-154	10.8	22
243	Chondrogenic differentiation of human chondrocytes cultured in the absence of ascorbic acid. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 1402-1411	4.4	1
242	In vitro biomimetic engineering of a human hematopoietic niche with functional properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5688-E5695	11.5	65
241	An In Vitro Bone Model to Investigate the Role of Triggering Receptor Expressed on Myeloid Cells-2 in Bone Homeostasis. <i>Tissue Engineering - Part C: Methods</i> , 2018 , 24, 391-398	2.9	3

240	Hyperstimulation of CaSR in human MSCs by biomimetic apatite inhibits endochondral ossification via temporal down-regulation of PTH1R. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E6135-E6144	11.5	19
239	Label-Free Quantification Proteomics for the Identification of Mesenchymal Stromal Cell Matrisome Inside 3D Poly(Ethylene Glycol) Hydrogels. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800534 ^{10.1}	10.1	10
238	Notch-inducing hydrogels reveal a perivascular switch of mesenchymal stem cell fate. <i>EMBO Reports</i> , 2018 , 19,	6.5	30
237	Biomechanical evaluation of hMSCs-based engineered cartilage for chondral tissue regeneration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 86, 294-304	4.1	7
236	Pooled thrombin-activated platelet-rich plasma: a substitute for fetal bovine serum in the engineering of osteogenic/vasculogenic grafts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1542-1552	4.4	9
235	Engineered Extracellular Matrices as Biomaterials of Tunable Composition and Function. <i>Advanced Functional Materials</i> , 2017 , 27, 1605486	15.6	35
234	Monocytes Seeded on Engineered Hypertrophic Cartilage Do Not Enhance Endochondral Ossification Capacity. <i>Tissue Engineering - Part A</i> , 2017 , 23, 708-715	3.9	4
233	Perfusion bioreactor-based cryopreservation of 3D human mesenchymal stromal cell tissue grafts. <i>Cryobiology</i> , 2017 , 76, 150-153	2.7	18
232	Nasal chondrocytes as a neural crest-derived cell source for regenerative medicine. <i>Current Opinion in Biotechnology</i> , 2017 , 47, 1-6	11.4	24
231	Extracellular matrix and Integrin signaling control the maintenance of bone formation capacity by human adipose-derived stromal cells. <i>Scientific Reports</i> , 2017 , 7, 44398	4.9	18
230	Bimodal morphological analyses of native and engineered tissues. <i>Materials Science and Engineering C</i> , 2017 , 76, 543-550	8.3	5
229	Engineering of an angiogenic niche by perfusion culture of adipose-derived stromal vascular fraction cells. <i>Scientific Reports</i> , 2017 , 7, 14252	4.9	14
228	Scaffold Composition Determines the Angiogenic Outcome of Cell-Based Vascular Endothelial Growth Factor Expression by Modulating Its Microenvironmental Distribution. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700600	10.1	8
227	Ontogenic Identification and Analysis of Mesenchymal Stromal Cell Populations during Mouse Limb and Long Bone Development. <i>Stem Cell Reports</i> , 2017 , 9, 1124-1138	8	17
226	Engineered, axially-vascularized osteogenic grafts from human adipose-derived cells to treat avascular necrosis of bone in a rat model. <i>Acta Biomaterialia</i> , 2017 , 63, 236-245	10.8	20
225	Polycaprolactone-templated reduced-graphene oxide liquid crystal nanofibers towards biomedical applications. <i>RSC Advances</i> , 2017 , 7, 39628-39634	3.7	17
224	Synthetic niche substrates engineered via two-photon laser polymerization for the expansion of human mesenchymal stromal cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2836-2845	4.4	25
223	Vascular Endothelial Growth Factor Sequestration Enhances In Vivo Cartilage Formation. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	5

222	Ascorbic Acid Attenuates Senescence of Human Osteoarthritic Osteoblasts. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	8
221	Contrast-Enhanced Microtomographic Characterisation of Vessels in Native Bone and Engineered Vascularised Grafts Using Ink-Gelatin Perfusion and Phosphotungstic Acid. <i>Contrast Media and Molecular Imaging</i> , 2017 , 2017, 4035160	3.2	7
220	From Autologous Flaps to Engineered Vascularized Grafts for Bone Regeneration 2017 , 1-34		
219	Cartilage Repair in the Inflamed Joint: Considerations for Biological Augmentation Toward Tissue Regeneration. <i>Tissue Engineering - Part B: Reviews</i> , 2016 , 22, 149-59	7.9	16
218	Spontaneous In Vivo Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells by Blocking Vascular Endothelial Growth Factor Signaling. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 1730-1738	6.9	41
217	Implantation of Stromal Vascular Fraction Progenitors at Bone Fracture Sites: From a Rat Model to a First-in-Man Study. <i>Stem Cells</i> , 2016 , 34, 2956-2966	5.8	49
216	Regenerative Potential of Tissue-Engineered Nasal Chondrocytes in Goat Articular Cartilage Defects. <i>Tissue Engineering - Part A</i> , 2016 , 22, 1286-1295	3.9	26
215	Engineered mesenchymal cell-based patches as controlled VEGF delivery systems to induce extrinsic angiogenesis. <i>Acta Biomaterialia</i> , 2016 , 42, 127-135	10.8	18
214	Nasal chondrocyte-based engineered autologous cartilage tissue for repair of articular cartilage defects: an observational first-in-human trial. <i>Lancet, The</i> , 2016 , 388, 1985-1994	4.0	146
213	Notochordal cell conditioned medium (NCCM) regenerates end-stage human osteoarthritic articular chondrocytes and promotes a healthy phenotype. <i>Arthritis Research and Therapy</i> , 2016 , 18, 125	5.7	10
212	Engineered miniaturized models of musculoskeletal diseases. <i>Drug Discovery Today</i> , 2016 , 21, 1429-1436	6.8	15
211	Characterization of vasculogenic potential of human adipose-derived endothelial cells in a three-dimensional vascularized skin substitute. <i>Pediatric Surgery International</i> , 2016 , 32, 17-27	2.1	45
210	Three dimensional multi-cellular muscle-like tissue engineering in perfusion-based bioreactors. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 226-36	4.9	27
209	The Survey on Cellular and Engineered Tissue Therapies in Europe in 2013. <i>Tissue Engineering - Part A</i> , 2016 , 22, 5-16	3.9	10
208	International Society for Cellular Therapy perspective on immune functional assays for mesenchymal stromal cells as potency release criterion for advanced phase clinical trials. <i>Cytotherapy</i> , 2016 , 18, 151-9	4.8	278
207	Learn, simplify and implement: developmental re-engineering strategies for cartilage repair. <i>Swiss Medical Weekly</i> , 2016 , 146, w14346	3.1	5
206	Biologically and mechanically driven design of an RGD-mimetic macroporous foam for adipose tissue engineering applications. <i>Biomaterials</i> , 2016 , 104, 65-77	15.6	29
205	Dual Role of Mesenchymal Stem Cells Allows for Microvascularized Bone Tissue-Like Environments in PEG Hydrogels. <i>Advanced Healthcare Materials</i> , 2016 , 5, 489-98	10.1	40

204	A relativity concept in mesenchymal stromal cell manufacturing. <i>Cytotherapy</i> , 2016 , 18, 613-20	4.8	36
203	Engineering Small-Scale and Scaffold-Based Bone Organs via Endochondral Ossification Using Adult Progenitor Cells. <i>Methods in Molecular Biology</i> , 2016 , 1416, 413-24	1.4	5
202	Generation of a Bone Organ by Human Adipose-Derived Stromal Cells Through Endochondral Ossification. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 1090-7	6.9	34
201	Fat-Derived Stromal Vascular Fraction Cells Enhance the Bone-Forming Capacity of Devitalized Engineered Hypertrophic Cartilage Matrix. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 1684-1694	6.9	19
200	Future of cellular therapies in orthopaedics: Different views, one common challenge. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 10-1	3.8	
199	Bioreactor-engineered cancer tissue-like structures mimic phenotypes, gene expression profiles and drug resistance patterns observed "in vivo". <i>Biomaterials</i> , 2015 , 62, 138-46	15.6	41
198	Modular poly(ethylene glycol) matrices for the controlled 3D-localized osteogenic differentiation of mesenchymal stem cells. <i>Advanced Healthcare Materials</i> , 2015 , 4, 550-8	10.1	29
197	Anti-inflammatory/tissue repair macrophages enhance the cartilage-forming capacity of human bone marrow-derived mesenchymal stromal cells. <i>Journal of Cellular Physiology</i> , 2015 , 230, 1258-69	7	27
196	Animal models for meniscus repair and regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 512-27	4.4	42
195	Tendon healing: an overview of physiology, biology, and pathology of tendon healing and systematic review of state of the art in tendon bioengineering. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2015 , 23, 2097-105	5.5	63
194	Tissue engineering strategies to study cartilage development, degeneration and regeneration. <i>Advanced Drug Delivery Reviews</i> , 2015 , 84, 107-22	18.5	89
193	Engineered decellularized matrices to instruct bone regeneration processes. <i>Bone</i> , 2015 , 70, 66-72	4.7	44
192	Bone-forming capacity of adult human nasal chondrocytes. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 1390-9	5.6	13
191	Generation and characterization of osteochondral grafts with human nasal chondrocytes. <i>Journal of Orthopaedic Research</i> , 2015 , 33, 1111-9	3.8	11
190	Facile fabrication of egg white macroporous sponges for tissue regeneration. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2281-90	10.1	28
189	Effects of intersyringe processing on adipose tissue and its cellular components: implications in autologous fat grafting. <i>Plastic and Reconstructive Surgery</i> , 2015 , 135, 1618-1628	2.7	43
188	Novel Perfused Compression Bioreactor System as an in vitro Model to Investigate Fracture Healing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 10	5.8	22
187	Engraftment of Prevascularized, Tissue Engineered Constructs in a Novel Rabbit Segmental Bone Defect Model. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 12616-30	6.3	28

186	Cartilage graft engineering by co-culturing primary human articular chondrocytes with human bone marrow stromal cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 1394-403	4.4	38
185	High-Throughput Microfluidic Platform for 3D Cultures of Mesenchymal Stem Cells, Towards Engineering Developmental Processes. <i>Scientific Reports</i> , 2015 , 5, 10288	4.9	64
184	An improved cartilage digestion method for research and clinical applications. <i>Tissue Engineering - Part C: Methods</i> , 2015 , 21, 394-403	2.9	6
183	The survey on cellular and engineered tissue therapies in Europe in 2012. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1-13	3.9	30
182	A potential role of homeobox transcription factors in osteoarthritis. <i>Annals of Translational Medicine</i> , 2015 , 3, 254	3.2	7
181	Non-adherent mesenchymal progenitors from adipose tissue stromal vascular fraction. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1081-8	3.9	7
180	"In vitro" 3D models of tumor-immune system interaction. <i>Advanced Drug Delivery Reviews</i> , 2014 , 79-80, 145-54	18.5	63
179	Engineered tissues as customized organ germs. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1132-3	3.9	23
178	Re-engineering development to instruct tissue regeneration. <i>Current Topics in Developmental Biology</i> , 2014 , 108, 319-38	5.3	17
177	Engineered autologous cartilage tissue for nasal reconstruction after tumour resection: an observational first-in-human trial. <i>Lancet, The</i> , 2014 , 384, 337-46	4.0	115
176	Atomic force microscopy to investigate spatial patterns of response to interleukin-1beta in engineered cartilage tissue elasticity. <i>Journal of Biomechanics</i> , 2014 , 47, 2157-64	2.9	12
175	Combination of immortalization and inducible death strategies to generate a human mesenchymal stromal cell line with controlled survival. <i>Stem Cell Research</i> , 2014 , 12, 584-98	1.6	24
174	Tissue-engineered dermo-epidermal skin grafts prevascularized with adipose-derived cells. <i>Biomaterials</i> , 2014 , 35, 5065-78	15.6	109
173	Rapid prototyped porous nickel-titanium scaffolds as bone substitutes. <i>Journal of Tissue Engineering</i> , 2014 , 5, 2041731414540674	7.5	28
172	The survey on cellular and engineered tissue therapies in Europe in 2011. <i>Tissue Engineering - Part A</i> , 2014 , 20, 842-53	3.9	10
171	Expansion of human mesenchymal stromal cells from fresh bone marrow in a 3D scaffold-based system under direct perfusion. <i>PLoS ONE</i> , 2014 , 9, e102359	3.7	71
170	Osteoinductivity of engineered cartilaginous templates devitalized by inducible apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17426-31	11.5	52
169	Bioreactors 2014 , 393-425		2

168	TGF- β -Induced differentiation into myofibroblasts involves specific regulation of two MKL1 isoforms. <i>Journal of Cell Science</i> , 2014 , 127, 1079-91	5.3	71
167	Mesenchymal stromal cells induce epithelial-to-mesenchymal transition in human colorectal cancer cells through the expression of surface-bound TGF- β . <i>International Journal of Cancer</i> , 2014 , 134, 2583-94	7.5	48
166	Effect of Purmorphamine on Osteogenic Differentiation of Human Mesenchymal Stem Cells in a Three-Dimensional Dynamic Culture System. <i>Cellular and Molecular Bioengineering</i> , 2014 , 7, 575-584	3.9	6
165	Osteoblastic differentiation of Wharton jelly biopsy specimens and their mesenchymal stromal cells after serum-free culture. <i>Plastic and Reconstructive Surgery</i> , 2014 , 134, 59e-69e	2.7	14
164	Adult human neural crest-derived cells for articular cartilage repair. <i>Science Translational Medicine</i> , 2014 , 6, 251ra119	17.5	80
163	Manufacturing challenges in regenerative medicine. <i>Science Translational Medicine</i> , 2014 , 6, 232fs16	17.5	50
162	TGF- β -Induced differentiation into myofibroblasts involves specific regulation of two MKL1 isoforms. <i>Development (Cambridge)</i> , 2014 , 141, e707-e707	6.6	
161	A collagen network phase improves cell seeding of open-pore structure scaffolds under perfusion. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2013 , 7, 183-91	4.4	25
160	The role of 3D structure and protein conformation on the innate and adaptive immune responses to silk-based biomaterials. <i>Biomaterials</i> , 2013 , 34, 8161-71	15.6	73
159	Priming 3D cultures of human mesenchymal stromal cells toward cartilage formation via developmental pathways. <i>Stem Cells and Development</i> , 2013 , 22, 2849-58	4.4	29
158	MSCs: science and trials. <i>Nature Medicine</i> , 2013 , 19, 812	50.5	38
157	Osteogenic graft vascularization and bone resorption by VEGF-expressing human mesenchymal progenitors. <i>Biomaterials</i> , 2013 , 34, 5025-35	15.6	60
156	Tissue decellularization by activation of programmed cell death. <i>Biomaterials</i> , 2013 , 34, 6099-108	15.6	51
155	Scaffold-based delivery of a clinically relevant anti-angiogenic drug promotes the formation of in vivo stable cartilage. <i>Tissue Engineering - Part A</i> , 2013 , 19, 1960-71	3.9	36
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