Ivan Martin

List of Publications by Year
in descending order

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316 papers	25,661 citations	81 h-index	148 g-index
		5896	8167
397 all docs	397 docs citations	397 times ranked	20501 citing authors

#	Article	IF	Citations
1	T-cadherin Expressing Cells in the Stromal Vascular Fraction of Human Adipose Tissue: Role in Osteogenesis and Angiogenesis. Stem Cells Translational Medicine, 2022, 11, 213-229.	3.3	4
2	Engineering of Tracheal Grafts Based on Recellularization of Laser-Engraved Human Airway Cartilage Substrates. Cartilage, 2022, 13, 194760352210759.	2.7	9
3	Spheroid-Based Tissue Engineering Strategies for Regeneration of the Intervertebral Disc. International Journal of Molecular Sciences, 2022, 23, 2530.	4.1	12
4	Genipinâ€crosslinked collagen scaffolds inducing chondrogenesis: a mechanical and biological characterization. Journal of Biomedical Materials Research - Part A, 2022, 110, 1372-1385.	4.0	5
5	Repair of a Rat Mandibular Bone Defect by Hypertrophic Cartilage Grafts Engineered From Human Fractionated Adipose Tissue. Frontiers in Bioengineering and Biotechnology, 2022, 10, 841690.	4.1	3
6	Efficacy of bioreactorâ€activated bone substitute with bone marrow nuclear cells on fusion rate and fusion mass microarchitecture in sheep. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 1862-1875.	3.4	2
7	Perfusion-Based Bioreactor Culture and Isothermal Microcalorimetry for Preclinical Drug Testing with the Carbonic Anhydrase Inhibitor SLC-0111 in Patient-Derived Neuroblastoma. International Journal of Molecular Sciences, 2022, 23, 3128.	4.1	10
8	In Vitro and Ectopic In Vivo Studies toward the Utilization of Rapidly Isolated Human Nasal Chondrocytes for Single-Stage Arthroscopic Cartilage Regeneration Therapy. International Journal of Molecular Sciences, 2022, 23, 6900.	4.1	0
9	Optimization of hyaluronic acid-tyramine/silk-fibroin composite hydrogels for cartilage tissue engineering and delivery of anti-inflammatory and anabolic drugs. Materials Science and Engineering C, 2021, 120, 111701.	7.3	72
10	The Survey on Cellular and Tissue-Engineered Therapies in Europe in 2016 and 2017. Tissue Engineering - Part A, 2021, 27, 336-350.	3.1	3
11	Engineering of fully humanized and vascularized 3D bone marrow niches sustaining undifferentiated human cord blood hematopoietic stem and progenitor cells. Journal of Tissue Engineering, 2021, 12, 204173142110448.	5.5	9
12	From Autologous Flaps to Engineered Vascularized Grafts for Bone Regeneration. Reference Series in Biomedical Engineering, 2021, , 521-554.	0.1	0
13	Thymus Extracellular Matrixâ€Derived Scaffolds Support Graftâ€Resident Thymopoiesis and Longâ€Term In Vitro Culture of Adult Thymic Epithelial Cells. Advanced Functional Materials, 2021, 31, 2010747.	14.9	16
14	Nasal Chondrocyteâ€"Based Engineered Grafts for the Repair of Articular Cartilage â€œKissingâ€•Lesions: A Pilot Large-Animal Study. American Journal of Sports Medicine, 2021, 49, 2187-2198.	4.2	1
15	Mesenchymal stromal cell variables influencing clinical potency: the impact of viability, fitness, route of administration and host predisposition. Cytotherapy, 2021, 23, 368-372.	0.7	45
16	Consensus International Council for Commonality in Blood Banking Automationâ€"International Society for Cell & Gene Therapy statement on standard nomenclature abbreviations for the tissue of origin of mesenchymal stromal cells. Cytotherapy, 2021, 23, 1060-1063.	0.7	15
17	Nose to Spine: spheroids generated by human nasal chondrocytes for scaffold-free nucleus pulposus augmentation. Acta Biomaterialia, 2021, 134, 240-251.	8.3	13
18	From Single Batch to Mass Productionâ€"Automated Platform Design Concept for a Phase II Clinical Trial Tissue Engineered Cartilage Product. Frontiers in Medicine, 2021, 8, 712917.	2.6	6

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19	Engineered nasal cartilage for the repair of osteoarthritic knee cartilage defects. Science Translational Medicine, 2021, 13, eaaz4499.	12.4	22
20	Culturing patient-derived malignant hematopoietic stem cells in engineered and fully humanized 3D niches. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19
21	Manufacturing of Human Tissues as offâ€theâ€Shelf Grafts Programmed to Induce Regeneration. Advanced Materials, 2021, 33, e2103737.	21.0	27
22	Modeling In Vitro Osteoarthritis Phenotypes in a Vascularized Bone Model Based on a Bone-Marrow Derived Mesenchymal Cell Line and Endothelial Cells. International Journal of Molecular Sciences, 2021, 22, 9581.	4.1	6
23	Chronic inflammation and extracellular matrix-specific autoimmunity following inadvertent periarticular influenza vaccination. Journal of Autoimmunity, 2021, 124, 102714.	6.5	7
24	Intervertebral Disc-on-a-Chip as Advanced In Vitro Model for Mechanobiology Research and Drug Testing: A Review and Perspective. Frontiers in Bioengineering and Biotechnology, 2021, 9, 826867.	4.1	5
25	Biomimetic human bone marrow tissues: models to study hematopoiesis and platforms for drug testing. Molecular and Cellular Oncology, 2021, 8, 2007030.	0.7	1
26	Case Report: Reconstruction of a Large Maxillary Defect With an Engineered, Vascularized, Prefabricated Bone Graft. Frontiers in Oncology, 2021, 11, 775136.	2.8	7
27	Dispersion of ceramic granules within human fractionated adipose tissue to enhance endochondral bone formation. Acta Biomaterialia, 2020, 102, 458-467.	8.3	12
28	Intra-individual comparison of human nasal chondrocytes and debrided knee chondrocytes: Relevance for engineering autologous cartilage grafts. Clinical Hemorheology and Microcirculation, 2020, 74, 67-78.	1.7	20
29	Orthotopic Bone Formation by Streamlined Engineering and Devitalization of Human Hypertrophic Cartilage. International Journal of Molecular Sciences, 2020, 21, 7233.	4.1	9
30	Plateletâ€rich plasma and stromal vascular fraction cells for the engineering of axially vascularized osteogenic grafts. Journal of Tissue Engineering and Regenerative Medicine, 2020, 14, 1908-1917.	2.7	5
31	Advanced Bioink for 3D Bioprinting of Complex Free-Standing Structures with High Stiffness. Bioengineering, 2020, 7, 141.	3.5	30
32	Sensing tissue engineered cartilage quality with Raman spectroscopy and statistical learning for the development of advanced characterization assays. Biosensors and Bioelectronics, 2020, 166, 112467.	10.1	7
33	Comparison of Human Articular Cartilage Tissue and Chondrocytes Isolated from Peripheral versus Central Regions of Traumatic Lesions. Cartilage, 2020, , 194760352095815.	2.7	6
34	Blockage of bone morphogenetic protein signalling counteracts hypertrophy in a human osteoarthritic micro-cartilage model. Journal of Cell Science, 2020, 133, .	2.0	16
35	Editorial: Clinical Translation and Commercialisation of Advanced Therapy Medicinal Products. Frontiers in Bioengineering and Biotechnology, 2020, 8, 619698.	4.1	1
36	Cell-based therapies for coronavirus disease 2019: proper clinical investigations are essential. Cytotherapy, 2020, 22, 602-605.	0.7	35

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37	Extracellular Matrix Production by Mesenchymal Stromal Cells in Hydrogels Facilitates Cell Spreading and Is Inhibited by FGFâ€2. Advanced Healthcare Materials, 2020, 9, 1901669.	7.6	31
38	Welcome to ISCT 2020 Paris Virtual. Cytotherapy, 2020, 22, S3.	0.7	0
39	Anti-Inflammatory and Chondroprotective Effects of Vanillic Acid and Epimedin C in Human Osteoarthritic Chondrocytes. Biomolecules, 2020, 10, 932.	4.0	33
40	Human dental pulp stem cells exhibit enhanced properties in comparison to human bone marrow stem cells on neurites outgrowth. FASEB Journal, 2020, 34, 5499-5511.	0.5	33
41	Biomarker Signatures of Quality for Engineering Nasal Chondrocyte-Derived Cartilage. Frontiers in Bioengineering and Biotechnology, 2020, 8, 283.	4.1	16
42	Reply to comment on: Mumme M, et al. Tissue engineering for paediatric patients. Swiss Med Wkly. 2019.149.w20032. Swiss Medical Weekly, 2020, 150, w20240.	1.6	0
43	Mesenchymal stem versus stromal cells: International Society for Cell & Gene Therapy (ISCTÂ®) Mesenchymal Stromal Cell committee position statement on nomenclature. Cytotherapy, 2019, 21, 1019-1024.	0.7	466
44	Extracellular Matrices to Modulate the Innate Immune Response and Enhance Bone Healing. Frontiers in Immunology, 2019, 10, 2256.	4.8	27
45	Bioreactorâ€manufactured cartilage grafts repair acute and chronic osteochondral defects in large animal studies. Cell Proliferation, 2019, 52, e12653.	5.3	15
46	Magnetic nanocomposite hydrogels and static magnetic field stimulate the osteoblastic and vasculogenic profile of adipose-derived cells. Biomaterials, 2019, 223, 119468.	11.4	90
47	Fate Distribution and Regulatory Role of Human Mesenchymal Stromal Cells in Engineered Hematopoietic Bone Organs. IScience, 2019, 19, 504-513.	4.1	13
48	Challenges Toward the Identification of Predictive Markers for Human Mesenchymal Stromal Cells Chondrogenic Potential. Stem Cells Translational Medicine, 2019, 8, 194-204.	3.3	16
49	Hyperphysiological compression of articular cartilage induces an osteoarthritic phenotype in a cartilage-on-a-chip model. Nature Biomedical Engineering, 2019, 3, 545-557.	22.5	126
50	Maintenance of Primary Human Colorectal Cancer Microenvironment Using a Perfusion Bioreactorâ€Based 3D Culture System. Advanced Biology, 2019, 3, e1800300.	3.0	21
51	Nose to back: compatibility of nasal chondrocytes with environmental conditions mimicking a degenerated intervertebral disc. , 2019, 37, 214-232.		18
52	Challenges for mesenchymal stromal cell therapies. Science Translational Medicine, 2019, 11, .	12.4	126
53	Roadmap and Challenges for Investigator Initiated Clinical Trials With Advanced Therapy Medicinal Products (ATMPs). , 2019, , 57-57.		1
54	Regulation of Inflammatory Response in Human Osteoarthritic Chondrocytes by Novel Herbal Small Molecules. International Journal of Molecular Sciences, 2019, 20, 5745.	4.1	19

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55	Improved Adipocyte Viability in Autologous Fat Grafting With Ascorbic Acidâ€“Supplemented Tumescent Solution. Annals of Plastic Surgery, 2019, 83, 464-467.	0.9	6
56	Organs by design. Current Opinion in Organ Transplantation, 2019, 24, 562-567.	1.6	7
57	Prefabrication of a large pedicled bone graft by engineering the germ for de novo vascularization and osteoinduction. Biomaterials, 2019, 192, 118-127.	11.4	32
58	Mesenchymal stromal cell activation by breast cancer secretomes in bioengineered 3D microenvironments. Life Science Alliance, 2019, 2, e201900304.	2.8	37
59	Raman spectroscopy quality controls for GMP compliant manufacturing of tissue engineered cartilage. , 2019, , .		2
60	Tissue engineering for paediatric patients. Swiss Medical Weekly, 2019, 149, w20032.	1.6	7
61	Engineering Human Bone Marrow Proxies. Cell Stem Cell, 2018, 22, 298-301.	11.1	23
62	Developmentally inspired programming of adult human mesenchymal stromal cells toward stable chondrogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4625-4630.	7.1	53
63	Mouse and human HSPC immobilization in liquid culture by CD43- or CD44-antibody coating. Blood, 2018, 131, 1425-1429.	1.4	26
64	Interplay between stiffness and degradation of architectured gelatin hydrogels leads to differential modulation of chondrogenesis in vitro and in vivo. Acta Biomaterialia, 2018, 69, 83-94.	8.3	52
65	Delivery of cellular factors to regulate bone healing. Advanced Drug Delivery Reviews, 2018, 129, 285-294.	13.7	51
66	Wet milling of large quantities of human excision adipose tissue for the isolation of stromal vascular fraction cells. Cytotechnology, 2018, 70, 807-817.	1.6	1
67	Engineered humanized bone organs maintain human hematopoiesis in vivo. Experimental Hematology, 2018, 61, 45-51.e5.	0.4	17
68	Spatially confined induction of endochondral ossification by functionalized hydrogels for ectopic engineering of osteochondral tissues. Biomaterials, 2018, 171, 219-229.	11.4	53
69	Decoration of RGD-mimetic porous scaffolds with engineered and devitalized extracellular matrix for adipose tissue regeneration. Acta Biomaterialia, 2018, 73, 154-166.	8.3	16
70	From Tissue Engineering to Regenerative Surgery. EBioMedicine, 2018, 28, 11-12.	6.1	9
71	Ectopic bone formation by aggregated mesenchymal stem cells from bone marrow and adipose tissue: A comparative study. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e150-e158.	2.7	65
72	The survey on cellular and tissue-engineered therapies in Europe and neighboring Eurasian countries in 2014 and 2015. Cytotherapy, 2018, 20, 1-20.	0.7	12

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73	Labelâ€Free Quantification Proteomics for the Identification of Mesenchymal Stromal Cell Matrisome Inside 3D Poly(Ethylene Glycol) Hydrogels. Advanced Healthcare Materials, 2018, 7, e1800534.	7.6	21
74	Notchâ€inducing hydrogels reveal a perivascular switch of mesenchymal stem cell fate. EMBO Reports, 2018, 19, .	4.5	43
75	Biomechanical evaluation of hMSCs-based engineered cartilage for chondral tissue regeneration. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 294-304.	3.1	10
76	Pre-transplantational Control of the Post-transplantational Fate of Human Pluripotent Stem Cell-Derived Cartilage. Stem Cell Reports, 2018, 11, 440-453.	4.8	14
77	Fractionated human adipose tissue as a native biomaterial for the generation of a bone organ by endochondral ossification. Acta Biomaterialia, 2018, 77, 142-154.	8.3	29
78	Chondrogenic differentiation of human chondrocytes cultured in the absence of ascorbic acid. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1402-1411.	2.7	9
79	In vitro biomimetic engineering of a human hematopoietic niche with functional properties. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5688-E5695.	7.1	99
80	AnIn VitroBone Model to Investigate the Role of Triggering Receptor Expressed on Myeloid Cells-2 in Bone Homeostasis. Tissue Engineering - Part C: Methods, 2018, 24, 391-398.	2.1	9
81	Hyperstimulation of CaSR in human MSCs by biomimetic apatite inhibits endochondral ossification via temporal down-regulation of PTH1R. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6135-E6144.	7.1	23
82	Pooled thrombin-activated platelet-rich plasma: a substitute for fetal bovine serum in the engineering of osteogenic/vasculogenic grafts. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1542-1552.	2.7	11
83	Engineered Extracellular Matrices as Biomaterials of Tunable Composition and Function. Advanced Functional Materials, 2017, 27, 1605486.	14.9	44
84	Monocytes Seeded on Engineered Hypertrophic Cartilage Do Not Enhance Endochondral Ossification Capacity. Tissue Engineering - Part A, 2017, 23, 708-715.	3.1	5
85	Perfusion bioreactor-based cryopreservation of 3D human mesenchymal stromal cell tissue grafts. Cryobiology, 2017, 76, 150-153.	0.7	24
86	Nasal chondrocytes as a neural crest-derived cell source for regenerative medicine. Current Opinion in Biotechnology, 2017, 47, 1-6.	6.6	29
87	Extracellular matrix and Î±5Î²1 integrin signaling control the maintenance of bone formation capacity by human adipose-derived stromal cells. Scientific Reports, 2017, 7, 44398.	3.3	26
88	Bimodal morphological analyses of native and engineered tissues. Materials Science and Engineering C, 2017, 76, 543-550.	7.3	5
89	Engineering of an angiogenic niche by perfusion culture of adipose-derived stromal vascular fraction cells. Scientific Reports, 2017, 7, 14252.	3.3	21
90	Scaffold Composition Determines the Angiogenic Outcome of Cellâ€Based Vascular Endothelial Growth Factor Expression by Modulating Its Microenvironmental Distribution. Advanced Healthcare Materials, 2017, 6, 1700600.	7.6	12

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91	Ontogenic Identification and Analysis of Mesenchymal Stromal Cell Populations during Mouse Limb and Long Bone Development. Stem Cell Reports, 2017, 9, 1124-1138.	4.8	27
92	Engineered, axially-vascularized osteogenic grafts from human adipose-derived cells to treat avascular necrosis of bone in a rat model. Acta Biomaterialia, 2017, 63, 236-245.	8.3	22
93	Polycaprolactone-templated reduced-graphene oxide liquid crystal nanofibers towards biomedical applications. RSC Advances, 2017, 7, 39628-39634.	3.6	27
94	Synthetic niche substrates engineered via two-photon laser polymerization for the expansion of human mesenchymal stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 2836-2845.	2.7	32
95	Vascular Endothelial Growth Factor Sequestration Enhances In Vivo Cartilage Formation. International Journal of Molecular Sciences, 2017, 18, 2478.	4.1	8
96	Ascorbic Acid Attenuates Senescence of Human Osteoarthritic Osteoblasts. International Journal of Molecular Sciences, 2017, 18, 2517.	4.1	19
97	Contrast-Enhanced Microtomographic Characterisation of Vessels in Native Bone and Engineered Vascularised Grafts Using Ink-Gelatin Perfusion and Phosphotungstic Acid. Contrast Media and Molecular Imaging, 2017, 2017, 1-10.	0.8	7
98	From Autologous Flaps to Engineered Vascularized Grafts for Bone Regeneration. , 2017, , 1-34.		1
99	Biologically and mechanically driven design of an RGD-mimetic macroporous foam for adipose tissue engineering applications. Biomaterials, 2016, 104, 65-77.	11.4	36
100	Dual Role of Mesenchymal Stem Cells Allows for Microvascularized Bone Tissueâ€Like Environments in PEG Hydrogels. Advanced Healthcare Materials, 2016, 5, 489-498.	7.6	51
101	A relativity concept in mesenchymal stromal cell manufacturing. Cytotherapy, 2016, 18, 613-620.	0.7	45
102	Engineering Small-Scale and Scaffold-Based Bone Organs via Endochondral Ossification Using Adult Progenitor Cells. Methods in Molecular Biology, 2016, 1416, 413-424.	0.9	5
103	Generation of a Bone Organ by Human Adipose-Derived Stromal Cells Through Endochondral Ossification. Stem Cells Translational Medicine, 2016, 5, 1090-1097.	3.3	44
104	Fat-Derived Stromal Vascular Fraction Cells Enhance the Bone-Forming Capacity of Devitalized Engineered Hypertrophic Cartilage Matrix. Stem Cells Translational Medicine, 2016, 5, 1684-1694.	3.3	24
105	Future of cellular therapies in orthopaedics: Different views, one common challenge. Journal of Orthopaedic Research, 2016, 34, 10-11.	2.3	0
106	Spontaneous In Vivo Chondrogenesis of Bone Marrow-Derived Mesenchymal Progenitor Cells by Blocking Vascular Endothelial Growth Factor Signaling. Stem Cells Translational Medicine, 2016, 5, 1730-1738.	3.3	47
107	Implantation of Stromal Vascular Fraction Progenitors at Bone Fracture Sites: From a Rat Model to a First-in-Man Study. Stem Cells, 2016, 34, 2956-2966.	3.2	63
108	Regenerative Potential of Tissue-Engineered Nasal Chondrocytes in Goat Articular Cartilage Defects. Tissue Engineering - Part A, 2016, 22, 1286-1295.	3.1	34

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109	Engineered mesenchymal cell-based patches as controlled VEGF delivery systems to induce extrinsic angiogenesis. Acta Biomaterialia, 2016, 42, 127-135.	8.3	21
110	Nasal chondrocyte-based engineered autologous cartilage tissue for repair of articular cartilage defects: an observational first-in-human trial. Lancet, The, 2016, 388, 1985-1994.	13.7	214
111	Notochordal cell conditioned medium (NCCM) regenerates end-stage human osteoarthritic articular chondrocytes and promotes a healthy phenotype. Arthritis Research and Therapy, 2016, 18, 125.	3.5	13
112	Engineered miniaturized models of musculoskeletal diseases. Drug Discovery Today, 2016, 21, 1429-1436.	6.4	24
113	Characterization of vasculogenic potential of human adipose-derived endothelial cells in a three-dimensional vascularized skin substitute. Pediatric Surgery International, 2016, 32, 17-27.	1.4	63
114	Three dimensional multiâ€cellular muscleâ€like tissue engineering in perfusionâ€based bioreactors. Biotechnology and Bioengineering, 2016, 113, 226-236.	3.3	31
115	The Survey on Cellular and Engineered Tissue Therapies in Europe in 2013. Tissue Engineering - Part A, 2016, 22, 5-16.	3.1	11
116	International Society for Cellular Therapy perspective on immune functional assays for mesenchymal stromal cells as potency release criterion for advanced phase clinical trials. Cytotherapy, 2016, 18, 151-159.	0.7	400
117	Cartilage Repair in the Inflamed Joint: Considerations for Biological Augmentation Toward Tissue Regeneration. Tissue Engineering - Part B: Reviews, 2016, 22, 149-159.	4.8	22
118	Learn, simplify and implement: developmental re-engineering strategies for cartilage repai. Swiss Medical Weekly, 2016, 146, w14346.	1.6	6
119	Boneâ€forming capacity of adult human nasal chondrocytes. Journal of Cellular and Molecular Medicine, 2015, 19, 1390-1399.	3.6	18
120	Generation and characterization of osteochondral grafts with human nasal chondrocytes. Journal of Orthopaedic Research, 2015, 33, 1111-1119.	2.3	12
121	Facile Fabrication of Egg White Macroporous Sponges for Tissue Regeneration. Advanced Healthcare Materials, 2015, 4, 2281-2290.	7.6	41
122	Effects of Intersyringe Processing on Adipose Tissue and Its Cellular Components. Plastic and Reconstructive Surgery, 2015, 135, 1618-1628.	1.4	60
123	Novel perfused compression bioreactor system as an in vitro model to investigate fracture healing. Frontiers in Bioengineering and Biotechnology, 2015, 3, 10.	4.1	25
124	Engraftment of Prevascularized, Tissue Engineered Constructs in a Novel Rabbit Segmental Bone Defect Model. International Journal of Molecular Sciences, 2015, 16, 12616-12630.	4.1	31
125	Cartilage graft engineering by co-culturing primary human articular chondrocytes with human bone marrow stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1394-1403.	2.7	41
126	High-Throughput Microfluidic Platform for 3D Cultures of Mesenchymal Stem Cells, Towards Engineering Developmental Processes. Scientific Reports, 2015, 5, 10288.	3.3	76

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127	An Improved Cartilage Digestion Method for Research and Clinical Applications. Tissue Engineering - Part C: Methods, 2015, 21, 394-403.	2.1	7
128	The Survey on Cellular and Engineered Tissue Therapies in Europe in 2012. Tissue Engineering - Part A, 2015, 21, 1-13.	3.1	31
129	Bioreactor-engineered cancer tissue-like structures mimic phenotypes, gene expression profiles and drug resistance patterns observed â€œinÂvivoâ€. Biomaterials, 2015, 62, 138-146.	11.4	59
130	Modular Poly(ethylene glycol) Matrices for the Controlled 3Dâ€Localized Osteogenic Differentiation of Mesenchymal Stem Cells. Advanced Healthcare Materials, 2015, 4, 550-558.	7.6	34
131	Antiâ€Inflammatory/Tissue Repair Macrophages Enhance the Cartilageâ€Forming Capacity of Human Bone Marrowâ€Derived Mesenchymal Stromal Cells. Journal of Cellular Physiology, 2015, 230, 1258-1269.	4.1	34
132	Animal models for meniscus repair and regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 512-527.	2.7	53
133	Tendon healing: an overview of physiology, biology, and pathology of tendon healing and systematic review of state of the art in tendon bioengineering. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 2097-2105.	4.2	91
134	Tissue engineering strategies to study cartilage development, degeneration and regeneration. Advanced Drug Delivery Reviews, 2015, 84, 107-122.	13.7	134
135	Engineered decellularized matrices to instruct bone regeneration processes. Bone, 2015, 70, 66-72.	2.9	55
136	A potential role of homeobox transcription factors in osteoarthritis. Annals of Translational Medicine, 2015, 3, 254.	1.7	10
137	Expansion of Human Mesenchymal Stromal Cells from Fresh Bone Marrow in a 3D Scaffold-Based System under Direct Perfusion. PLoS ONE, 2014, 9, e102359.	2.5	81
138	Osteoinductivity of engineered cartilaginous templates devitalized by inducible apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17426-17431.	7.1	56
139	Bioreactors. , 2014, , 393-425.		4
140	TGF-Î²-induced differentiation into myofibroblasts involves specific regulation of two MKL1 isoforms. Journal of Cell Science, 2014, 127, 1079-91.	2.0	82
141	Mesenchymal stromal cells induce epithelialâ€toâ€mesenchymal transition in human colorectal cancer cells through the expression of surfaceâ€bound TGFâ€Î²2. International Journal of Cancer, 2014, 134, 2583-2594.	5.1	58
142	Effect of Purmorphamine on Osteogenic Differentiation of Human Mesenchymal Stem Cells in a Three-Dimensional Dynamic Culture System. Cellular and Molecular Bioengineering, 2014, 7, 575-584.	2.1	7
143	Osteoblastic Differentiation of Wharton Jelly Biopsy Specimens and Their Mesenchymal Stromal Cells after Serum-Free Culture. Plastic and Reconstructive Surgery, 2014, 134, 59e-69e.	1.4	15
144	Adult human neural crestâ€“derived cells for articular cartilage repair. Science Translational Medicine, 2014, 6, 251ra119.	12.4	108

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145	Manufacturing Challenges in Regenerative Medicine. Science Translational Medicine, 2014, 6, 232fs16.	12.4	54
146	Non-Adherent Mesenchymal Progenitors from Adipose Tissue Stromal Vascular Fraction. Tissue Engineering - Part A, 2014, 20, 1081-1088.	3.1	8
147	â€œIn vitroâ€•3D models of tumor-immune system interaction. Advanced Drug Delivery Reviews, 2014, 79-80, 145-154.	13.7	78
148	Engineered Tissues as Customized Organ Germs. Tissue Engineering - Part A, 2014, 20, 1132-1133.	3.1	27
149	Re-engineering Development to Instruct Tissue Regeneration. Current Topics in Developmental Biology, 2014, 108, 319-338.	2.2	23
150	Engineered autologous cartilage tissue for nasal reconstruction after tumour resection: an observational first-in-human trial. Lancet, The, 2014, 384, 337-346.	13.7	163
151	Atomic force microscopy to investigate spatial patterns of response to interleukin-1beta in engineered cartilage tissue elasticity. Journal of Biomechanics, 2014, 47, 2157-2164.	2.1	15
152	Combination of immortalization and inducible death strategies to generate a human mesenchymal stromal cell line with controlled survival. Stem Cell Research, 2014, 12, 584-598.	0.7	38
153	Tissue-engineered dermo-epidermal skin grafts prevascularized with adipose-derived cells. Biomaterials, 2014, 35, 5065-5078.	11.4	136
154	Rapid prototyped porous nickelâ€“titanium scaffolds as bone substitutes. Journal of Tissue Engineering, 2014, 5, 2041731414540067.	5.5	33
155	TGF-Î²-induced differentiation into myofibroblasts involves specific regulation of two MKL1 isoforms. Development (Cambridge), 2014, 141, e707-e707.	2.5	0
156	A collagen network phase improves cell seeding of open-pore structure scaffolds under perfusion. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 183-191.	2.7	26
157	The role of 3D structure and protein conformation on the innate andÂadaptive immune responses to silk-based biomaterials. Biomaterials, 2013, 34, 8161-8171.	11.4	88
158	Priming 3D Cultures of Human Mesenchymal Stromal Cells Toward Cartilage Formation Via Developmental Pathways. Stem Cells and Development, 2013, 22, 2849-2858.	2.1	40
159	MSCs: science and trials. Nature Medicine, 2013, 19, 812-812.	30.7	41
160	The Survey on Cellular and Engineered Tissue Therapies in Europe in 2011. Tissue Engineering - Part A, 2013, 20, 131108064828001.	3.1	39
161	Osteogenic graft vascularization and bone resorption by VEGF-expressing human mesenchymal progenitors. Biomaterials, 2013, 34, 5025-5035.	11.4	77
162	Tissue decellularization by activation of programmed cell death. Biomaterials, 2013, 34, 6099-6108.	11.4	64

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163	Scaffold-Based Delivery of a Clinically Relevant Anti-Angiogenic Drug Promotes the Formation of In Vivo Stable Cartilage. Tissue Engineering - Part A, 2013, 19, 1960-1971.	3.1	47
164	Engineering of a functional bone organ through endochondral ossification. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3997-4002.	7.1	289
165	Toward Clinical Application of Tissue-Engineered Cartilage. Facial Plastic Surgery, 2013, 29, 099-105.	0.9	9
166	Meniscus repair and regeneration: review on current methods and research potential. , 2013, 26, 150-170.		118
167	Response of Human Engineered Cartilage Based on Articular or Nasal Chondrocytes to Interleukin-1Î² and Low Oxygen. Tissue Engineering - Part A, 2012, 18, 362-372.	3.1	70
168	Perspective on the Evolution of Cell-Based Bone Tissue Engineering Strategies. European Surgical Research, 2012, 49, 1-7.	1.3	38
169	Validation of an Automated Procedure to Isolate Human Adipose Tissueâ€“Derived Cells by Using the Sepax^{Â®} Technology. Tissue Engineering - Part C: Methods, 2012, 18, 575-582.	2.1	62
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