Joaquim M S Cabral

List of Publications by Year
in descending order

467 papers	18,122 citations	19657 61 h-index	28297 105 g-index
477 all docs	477 docs citations	477 times ranked	18040 citing authors

#	Article	IF	Citations
1	Cell Culture Process Scale-Up Challenges for Commercial-Scale Manufacturing of Allogeneic Pluripotent Stem Cell Products. Bioengineering, 2022, 9, 92.	3.5	9
2	3D Bioprinting of Novel Îº-Carrageenan Bioinks: An Algae-Derived Polysaccharide. Bioengineering, 2022, 9, 109.	3.5	23
3	A Dynamic 3D Aggregate-Based System for the Successful Expansion and Neural Induction of Human Pluripotent Stem Cells. Frontiers in Cellular Neuroscience, 2022, 16, 838217.	3.7	2
4	Polyaniline-polycaprolactone fibers for neural applications: Electroconductivity enhanced by pseudo-doping. Materials Science and Engineering C, 2021, 120, 111680.	7.3	23
5	A Concise Review on Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Personalized Regenerative Medicine. Stem Cell Reviews and Reports, 2021, 17, 748-776.	3.8	13
6	Effects of glycosaminoglycan supplementation in the chondrogenic differentiation of bone marrow- and synovial- derived mesenchymal stem/stromal cells on 3D-extruded poly (Îµ-caprolactone) scaffolds. International Journal of Polymeric Materials and Polymeric Biomaterials, 2021, 70, 207-222.	3.4	6
7	Electrical stimulation of neural-differentiating iPSCs on novel coaxial electroconductive nanofibers. Biomaterials Science, 2021, 9, 5359-5382.	5.4	16
8	Dimethyloxalylglycine, a small molecule, synergistically increases the homing and angiogenic properties of human mesenchymal stromal cells when cultured as 3D spheroids. Biotechnology Journal, 2021, 16, e2000389.	3.5	16
9	Effect of Electrical Stimulation Conditions on Neural Stem Cells Differentiation on Cross-Linked PEDOT:PSS Films. Frontiers in Bioengineering and Biotechnology, 2021, 9, 591838.	4.1	35
10	The effect of electrospun scaffolds on the glycosaminoglycan profile of differentiating neural stem cells. Biochimie, 2021, 182, 61-72.	2.6	12
11	Bone Matrix Non-Collagenous Proteins in Tissue Engineering: Creating New Bone by Mimicking the Extracellular Matrix. Polymers, 2021, 13, 1095.	4.5	50
12	Modeling Rett Syndrome with Human Pluripotent Stem Cells: Mechanistic Outcomes and Future Clinical Perspectives. International Journal of Molecular Sciences, 2021, 22, 3751.	4.1	10
13	Minicircleâ€based expression of vascular endothelial growth factor in mesenchymal stromal cells from diverse human tissues. Journal of Gene Medicine, 2021, 23, e3342.	2.8	2
14	Generation and characterization of induced pluripotent stem cells from a family carrying the BRCA1 mutation c.3612delA. Stem Cell Research, 2021, 52, 102242.	0.7	3
15	Single-Use Bioreactors for Human Pluripotent and Adult Stem Cells: Towards Regenerative Medicine Applications. Bioengineering, 2021, 8, 68.	3.5	18
16	Transcriptome profiling of human pluripotent stem cellâ€derived cerebellar organoids reveals faster commitment under dynamic conditions. Biotechnology and Bioengineering, 2021, 118, 2781-2803.	3.3	20
17	Generation and characterization of induced pluripotent stem cells heterozygous for the Portuguese BRCA2 founder mutation. Stem Cell Research, 2021, 53, 102364.	0.7	3
18	Magnetic Field Dynamic Strategies for the Improved Control of the Angiogenic Effect of Mesenchymal Stromal Cells. Polymers, 2021, 13, 1883.	4.5	6

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19	Magnetic stimulation of the angiogenic potential of mesenchymal stromal cells in vascular tissue engineering. Science and Technology of Advanced Materials, 2021, 22, 461-480.	6.1	17
20	Influence of the mesenchymal stromal cell source on the hematopoietic supportive capacity of umbilical cord blood-derived CD34+-enriched cells. Stem Cell Research and Therapy, 2021, 12, 399.	5.5	7
21	PEDOT:PSS-Coated Polybenzimidazole Electroconductive Nanofibers for Biomedical Applications. Polymers, 2021, 13, 2786.	4.5	12
22	Modeling the Human Body on Microfluidic Chips. Trends in Biotechnology, 2021, 39, 838-852.	9.3	53
23	Impact of Donor Age on the Osteogenic Supportive Capacity of Mesenchymal Stromal Cell-Derived Extracellular Matrix. Frontiers in Cell and Developmental Biology, 2021, 9, 747521.	3.7	26
24	Extruded Bioreactor Perfusion Culture Supports the Chondrogenic Differentiation of Human Mesenchymal Stem/Stromal Cells in 3D Porous Poly(É›â€Caprolactone) Scaffolds. Biotechnology Journal, 2020, 15, e1900078.	3.5	7
25	Kartogenin-loaded coaxial PGS/PCL aligned nanofibers for cartilage tissue engineering. Materials Science and Engineering C, 2020, 107, 110291.	7.3	86
26	Functional comparison of beating cardiomyocytes differentiated from umbilical cordâ€derived mesenchymal/stromal stem cells and human foreskinâ€derived induced pluripotent stem cells. Journal of Biomedical Materials Research - Part A, 2020, 108, 496-514.	4.0	17
27	Extracellular matrix decorated polycaprolactone scaffolds for improved mesenchymal stem/stromal cell osteogenesis towards a patientâ€tailored bone tissue engineering approach. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2153-2166.	3.4	52
28	Glycosaminoglycan disaccharide compositional analysis of cell-derived extracellular matrices using liquid chromatography-tandem mass spectrometry. Methods in Cell Biology, 2020, 156, 85-106.	1.1	1
29	Scalable Production of Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Under Serum-/Xeno-Free Conditions in a Microcarrier-Based Bioreactor Culture System. Frontiers in Cell and Developmental Biology, 2020, 8, 553444.	3.7	78
30	Functionalization of Electrospun Nanofibers and Fiber Alignment Enhance Neural Stem Cell Proliferation and Neuronal Differentiation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 580135.	4.1	39
31	Dissolved oxygen concentration regulates human hepatic organoid formation from pluripotent stem cells in a fully controlled bioreactor. Biotechnology and Bioengineering, 2020, 117, 3739-3756.	3.3	13
32	Tailored Cytokine Optimization for ex vivo Culture Platforms Targeting the Expansion of Human Hematopoietic Stem/Progenitor Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 573282.	4.1	9
33	Stem Cell Bioprocessing and Manufacturing. Bioengineering, 2020, 7, 84.	3.5	2
34	From Human Pluripotent Stem Cells to 3D Cardiac Microtissues: Progress, Applications and Challenges. Bioengineering, 2020, 7, 92.	3.5	8
35	Modeling Rett Syndrome With Human Patient-Specific Forebrain Organoids. Frontiers in Cell and Developmental Biology, 2020, 8, 610427.	3.7	49
36	3D Microwell Platform for Cardiomyocyte Differentiation of Human Pluripotent Stem Cells. Methods in Molecular Biology, 2020, , 1.	0.9	1

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37	Scalable Generation of Mature Cerebellar Organoids from Human Pluripotent Stem Cells and Characterization by Immunostaining. Journal of Visualized Experiments, 2020, , .	0.3	26
38	Scalable Manufacturing of Human Hematopoietic Stem/Progenitor Cells Exploiting a Co-culture Platform with Mesenchymal Stromal Cells. Methods in Molecular Biology, 2020, 2286, 107-120.	0.9	0
39	Loss and rescue of osteocalcin and osteopontin modulate osteogenic and angiogenic features of mesenchymal stem/stromal cells. Journal of Cellular Physiology, 2020, 235, 7496-7515.	4.1	18
40	Modulation of the in vitro angiogenic potential of human mesenchymal stromal cells from different tissue sources. Journal of Cellular Physiology, 2020, 235, 7224-7238.	4.1	16
41	Glycosaminoglycan remodeling during chondrogenic differentiation of human bone marrowâˆ'/synovial-derived mesenchymal stem/stromal cells under normoxia and hypoxia. Glycoconjugate Journal, 2020, 37, 345-360.	2.7	10
42	Maturation of Human Pluripotent Stem Cell-Derived Cerebellar Neurons in the Absence of Co-culture. Frontiers in Bioengineering and Biotechnology, 2020, 8, 70.	4.1	39
43	Mesenchymal stromal cells induce regulatory T cells via epigenetic conversion of human conventional CD4 T cells in vitro. Stem Cells, 2020, 38, 1007-1019.	3.2	36
44	Successful Use of Human AB Serum to Support the Expansion of Adipose Tissue-Derived Mesenchymal Stem/Stromal Cell in a Microcarrier-Based Platform. Frontiers in Bioengineering and Biotechnology, 2020, 8, 307.	4.1	12
45	Challenges and Solutions for Commercial Scale Manufacturing of Allogeneic Pluripotent Stem Cell Products. Bioengineering, 2020, 7, 31.	3.5	13
46	Suspension Culture of Human Induced Pluripotent Stem Cells in Single-Use Vertical-Wheelâ„¢ Bioreactors Using Aggregate and Microcarrier Culture Systems. Methods in Molecular Biology, 2020, 2286, 167-178.	0.9	8
47	Successful isolation and ex vivo expansion of human mesenchymal stem/stromal cells obtained from different synovial tissueâ€derived (biopsy) samples. Journal of Cellular Physiology, 2019, 234, 3973-3984.	4.1	16
48	Economics of Beta-Cell Replacement Therapy. Current Diabetes Reports, 2019, 19, 75.	4.2	12
49	Multifactorial Modeling Reveals a Dominant Role of Wnt Signaling in Lineage Commitment of Human Pluripotent Stem Cells. Bioengineering, 2019, 6, 71.	3.5	6
50	Impact of the human mesenchymal stem cells donor on conditional medium composition. , 2019, , .		0
51	Strategies for the expansion of human induced pluripotent stem cells as aggregates in single-use Vertical-Wheelâ„¢ bioreactors. Journal of Biological Engineering, 2019, 13, 74.	4.7	49
52	Polybenzimidazole nanofibers for neural stem cell culture. Materials Today Chemistry, 2019, 14, 100185.	3.5	20
53	Co-culture cell-derived extracellular matrix loaded electrospun microfibrous scaffolds for bone tissue engineering. Materials Science and Engineering C, 2019, 99, 479-490.	7.3	89
54	Bringing Stem Cellâ€Based Therapies for Type 1 Diabetes to the Clinic: Early Insights from Bioprocess Economics and Costâ€Effectiveness Analysis. Biotechnology Journal, 2019, 14, 1800563.	3.5	13

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55	Transcriptomic analysis of 3D Cardiac Differentiation of Human Induced Pluripotent Stem Cells Reveals Faster Cardiomyocyte Maturation Compared to 2D Culture. Scientific Reports, 2019, 9, 9229.	3.3	77
56	Cultured cellâ€derived extracellular matrices to enhance the osteogenic differentiation and angiogenic properties of human mesenchymal stem/stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1544-1558.	2.7	45
57	A complex human gut microbiome cultured in an anaerobic intestine-on-a-chip. Nature Biomedical Engineering, 2019, 3, 520-531.	22.5	487
58	Design Principles for Pluripotent Stem Cell-Derived Organoid Engineering. Stem Cells International, 2019, 2019, 1-17.	2.5	25
59	Polyaniline-polycaprolactone blended nanofibers for neural cell culture. European Polymer Journal, 2019, 117, 28-37.	5.4	58
60	Scalable Manufacturing of Human Mesenchymal Stromal Cells in the Verticalâ€Wheel Bioreactor System: An Experimental and Economic Approach. Biotechnology Journal, 2019, 14, e1800716.	3.5	42
61	Human Pluripotent Stem Cells: Applications and Challenges for Regenerative Medicine and Disease Modeling. Advances in Biochemical Engineering/Biotechnology, 2019, 171, 189-224.	1.1	2
62	Addressing the Manufacturing Challenges of Cell-Based Therapies. Advances in Biochemical Engineering/Biotechnology, 2019, 171, 225-278.	1.1	14
63	Engineering of Human Mesenchymal Stem/Stromal Cells with Vascular Endothelial Growth Factorâ€"Encoding Minicircles for Angiogenic Ex Vivo Gene Therapy. Human Gene Therapy, 2019, 30, 316-329.	2.7	16
64	Compositional and structural analysis of glycosaminoglycans in cell-derived extracellular matrices. Glycoconjugate Journal, 2019, 36, 141-154.	2.7	38
65	Synergistic effect of extracellularly supplemented osteopontin and osteocalcin on stem cell proliferation, osteogenic differentiation, and angiogenic properties. Journal of Cellular Biochemistry, 2019, 120, 6555-6569.	2.6	40
66	CD7 CAR T Cells for the Therapy of Acute Myeloid Leukemia. Molecular Therapy, 2019, 27, 272-280.	8.2	97
67	Dissolvable Microcarriers Allow Scalable Expansion And Harvesting Of Human Induced Pluripotent Stem Cells Under Xenoâ€Free Conditions. Biotechnology Journal, 2019, 14, e1800461.	3.5	52
68	Three-Dimensional Cell-Based Microarrays: Printing Pluripotent Stem Cells into 3D Microenvironments. Methods in Molecular Biology, 2018, 1771, 69-81.	0.9	3
69	Regenerative Medicine Manufacturing. Biotechnology Journal, 2018, 13, .	3.5	0
70	Modeling radiation injury-induced cell death and countermeasure drug responses in a human Gut-on-a-Chip. Cell Death and Disease, 2018, 9, 223.	6.3	138
71	Biophysical study of human induced Pluripotent Stem Cell-Derived cardiomyocyte structural maturation during long-term culture. Biochemical and Biophysical Research Communications, 2018, 499, 611-617.	2.1	35
72	Hematopoietic Niche â€" Exploring Biomimetic Cues to Improve the Functionality of Hematopoietic Stem/Progenitor Cells. Biotechnology Journal, 2018, 13, 1700088.	3.5	23

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73	A Fully-Closed and Automated Hollow Fiber Bioreactor for Clinical-Grade Manufacturing of Human Mesenchymal Stem/Stromal Cells. Stem Cell Reviews and Reports, 2018, 14, 141-143.	5.6	30
74	Modeling biological and economic uncertainty on cell therapy manufacturing: the choice of culture media supplementation. Regenerative Medicine, 2018, 13, 917-933.	1.7	9
75	Biomimetic matrices for rapidly forming mineralized bone tissue based on stem cell-mediated osteogenesis. Scientific Reports, 2018, 8, 14388.	3.3	46
76	Three-Dimensional Co-culture of Human Hematopoietic Stem/Progenitor Cells and Mesenchymal Stem/Stromal Cells in a Biomimetic Hematopoietic Niche Microenvironment. Methods in Molecular Biology, 2018, 2002, 101-119.	0.9	4
77	A scale out approach towards neural induction of human induced pluripotent stem cells for neurodevelopmental toxicity studies. Toxicology Letters, 2018, 294, 51-60.	0.8	15
78	Towards Multi-Organoid Systems for Drug Screening Applications. Bioengineering, 2018, 5, 49.	3.5	45
79	Bioreactors for the Cultivation of Hematopoietic Stem and Progenitor Cells. , 2018, , 165-200.		0
80	Epigenetic Profile of Treg-like Cells Induced By Mesenchymal Stem Cells in Vitro Resembles That of Natural Treg. Blood, 2018, 132, 2578-2578.	1.4	0
81	Cultivationâ€based strategies to find efficient marine biocatalysts. Biotechnology Journal, 2017, 12, 1700036.	3.5	13
82	Acellular Urethra Bioscaffold: Decellularization of Whole Urethras for Tissue Engineering Applications. Scientific Reports, 2017, 7, 41934.	3.3	50
83	Defined and Scalable Differentiation of Human Oligodendrocyte Precursors from Pluripotent Stem Cells in a 3D Culture System. Stem Cell Reports, 2017, 8, 1770-1783.	4.8	59
84	Tridimensional configurations of human mesenchymal stem/stromal cells to enhance cell paracrine potential towards wound healing processes. Journal of Biotechnology, 2017, 262, 28-39.	3.8	44
85	Tonic 4-1BB Costimulation in Chimeric Antigen Receptors Impedes T Cell Survival and Is Vector-Dependent. Cell Reports, 2017, 21, 17-26.	6.4	203
86	Improved survival of cardiac cells on surface modified electrospun nanofibers. Polymer Science - Series A, 2017, 59, 515-523.	1.0	8
87	Effects of Different Fibre Alignments and Bioactive Coatings on Mesenchymal Stem/Stromal Cell Adhesion and Proliferation in Poly (É›-caprolactone) Scaffolds towards Cartilage Repair. Procedia Manufacturing, 2017, 12, 132-140.	1.9	10
88	Allogeneic cell therapy manufacturing: process development technologies and facility design options. Expert Opinion on Biological Therapy, 2017, 17, 1201-1219.	3.1	30
89	Long-term expansion of human induced pluripotent stem cells in a microcarrier-based dynamic system. Journal of Chemical Technology and Biotechnology, 2017, 92, 492-503.	3.2	26
90	Integrated culture platform based on a human platelet lysate supplement for the isolation and scalable manufacturing of umbilical cord matrix-derived mesenchymal stem/stromal cells. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 1630-1640.	2.7	48

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91	Clinical-Grade Manufacturing of Therapeutic Human Mesenchymal Stem/Stromal Cells in Microcarrier-Based Culture Systems. Methods in Molecular Biology, 2016, 1416, 375-388.	0.9	12
92	Microcarrier-based platforms for in vitro expansion and differentiation of human pluripotent stem cells in bioreactor culture systems. Journal of Biotechnology, 2016, 234, 71-82.	3.8	51
93	Scalable microcarrier-based manufacturing of mesenchymal stem/stromal cells. Journal of Biotechnology, 2016, 236, 88-109.	3.8	64
94	Scaling up a chemicallyâ€defined aggregateâ€based suspension culture system for neural commitment of human pluripotent stem cells. Biotechnology Journal, 2016, 11, 1628-1638.	3.5	16
95	Stirred tank bioreactor culture combined with serumâ€/xenogeneicâ€free culture medium enables an efficient expansion of umbilical cordâ€derived mesenchymal stem/stromal cells. Biotechnology Journal, 2016, 11, 1048-1059.	3.5	56
96	Extracellular matrix microarrays to study inductive signaling for endoderm specification. Acta Biomaterialia, 2016, 34, 30-40.	8.3	24
97	Defined Essential 8â„¢ Medium and Vitronectin Efficiently Support Scalable Xeno-Free Expansion of Human Induced Pluripotent Stem Cells in Stirred Microcarrier Culture Systems. PLoS ONE, 2016, 11, e0151264.	2.5	57
98	Editorial: Stem Cell Engineering. Biotechnology Journal, 2015, 10, 1509-1510.	3.5	1
99	A xenoâ€free microcarrierâ€based stirred culture system for the scalable expansion of human mesenchymal stem/stromal cells isolated from bone marrow and adipose tissue. Biotechnology Journal, 2015, 10, 1235-1247.	3.5	55
100	Neural commitment of human pluripotent stem cells under defined conditions recapitulates neural development and generates patientâ€specific neural cells. Biotechnology Journal, 2015, 10, 1578-1588.	3.5	28
101	Developing a co-culture system for effective megakaryo/thrombopoiesis from umbilical cord blood hematopoietic stem/progenitor cells. Cytotherapy, 2015, 17, 428-442.	0.7	10
102	A human platelet lysate-based culture supplement for the successful isolation and scalable expansion of umbilical cord matrix-derived mesenchymal stem/stromal cells. Cytotherapy, 2015, 17, S43.	0.7	0
103	A value-added exopolysaccharide as a coating agent for MRI nanoprobes. Nanoscale, 2015, 7, 14272-14283.	5.6	17
104	Spatial and temporal control of cell aggregation efficiently directs human pluripotent stem cells towards neural commitment. Biotechnology Journal, 2015, 10, 1612-1624.	3.5	35
105	Clinicalâ€scale purification of pluripotent stem cell derivatives for cellâ€based therapies. Biotechnology Journal, 2015, 10, 1103-1114.	3.5	23
106	Scaling up the exÂvivo expansion of human circulating CD34+progenitor cells with upregulation of angiogenic and anti-inflammatory potential. Cytotherapy, 2015, 17, 1777-1784.	0.7	6
107	Advanced cell therapies for articular cartilage regeneration. Trends in Biotechnology, 2015, 33, 35-42.	9.3	156
108	Stem cell bioengineering strategies to widen the therapeutic applications of haematopoietic stem/progenitor cells from umbilical cord blood. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 988-1003.	2.7	10

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109	Ex vivoexpansion of cord blood haematopoietic stem/progenitor cells under physiological oxygen tensions: clear-cut effects on cell proliferation, differentiation and metabolism. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 1172-1181.	2.7	21
110	Intracoronary Delivery of Human Mesenchymal/Stromal Stem Cells: Insights from Coronary Microcirculation Invasive Assessment in a Swine Model. PLoS ONE, 2015, 10, e0139870.	2.5	16
111	Differentiation of Human Umbilical Cord Matrix Mesenchymal Stem Cells into Neural-Like Progenitor Cells and Maturation into an Oligodendroglial-Like Lineage. PLoS ONE, 2014, 9, e111059.	2.5	57
112	Purification of Human Induced Pluripotent Stem Cell-Derived Neural Precursors Using Magnetic Activated Cell Sorting. Methods in Molecular Biology, 2014, 1283, 137-145.	0.9	4
113	P358Safety of intracoronary delivery of mesenchymal/stromal stem cells: insights from coronary microcirculation invasive assessment:. Cardiovascular Research, 2014, 103, S65.3-S65.	3.8	0
114	Stem cell bioprocessing for regenerative medicine. Journal of Chemical Technology and Biotechnology, 2014, 89, 34-47.	3.2	30
115	Isolation and ex vivo expansion of synovial mesenchymal stromal cells for cartilage repair. Cytotherapy, 2014, 16, 440-453.	0.7	23
116	Maximizing mouse embryonic stem cell production in a stirred tank reactor by controlling dissolved oxygen concentration and continuous perfusion operation. Biochemical Engineering Journal, 2014, 82, 81-90.	3.6	17
117	A cell rolling cytometer reveals the correlation between mesenchymal stem cell dynamic adhesion and differentiation state. Lab on A Chip, 2014, 14, 161-166.	6.0	29
118	Kinetic model for the esterification of ethyl caproate for reaction optimization. Journal of Molecular Catalysis B: Enzymatic, 2014, 101, 16-22.	1.8	9
119	A xenogeneicâ€free bioreactor system for the clinicalâ€scale expansion of human mesenchymal stem/stromal cells. Biotechnology and Bioengineering, 2014, 111, 1116-1127.	3.3	129
120	Assessing diffusion in enzyme loaded solâ€“gel matrices. RSC Advances, 2014, 4, 25099-25105.	3.6	13
121	Proliferation extent of CD34+ cells as a key parameter to maximize megakaryocytic differentiation of umbilical cord blood-derived hematopoietic stem/progenitor cells in a two-stage culture protocol. Biotechnology Reports (Amsterdam, Netherlands), 2014, 4, 50-55.	4.4	8
122	Scalable Ex Vivo Expansion of Human Mesenchymal Stem/Stromal Cells in Microcarrier-Based Stirred Culture Systems. Methods in Molecular Biology, 2014, 1283, 147-159.	0.9	17
123	Scalable Expansion of Human-Induced Pluripotent Stem Cells in Xeno-Free Microcarriers. Methods in Molecular Biology, 2014, 1283, 23-29.	0.9	24
124	Concise Review: Genomic Instability in Human Stem Cells: Current Status and Future Challenges. Stem Cells, 2014, 32, 2824-2832.	3.2	43
125	Integrated Platform for Production and Purification of Human Pluripotent Stem Cell-Derived Neural Precursors. Stem Cell Reviews and Reports, 2014, 10, 151-161.	5.6	18
126	Stem cell engineering towards the optimization of the ex-vivo expansion of human hematopoietic stem/progenitor cells for cellular therapies. Cytotherapy, 2014, 16, S60.	0.7	0

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127	Three dimensional cellular microarray platform for human neural stem cell differentiation and toxicology. Stem Cell Research, 2014, 13, 36-47.	0.7	57
128	Separation Technologies for Stem Cell Bioprocessing. Cell Engineering, 2014, , 157-181.	0.4	2
129	Characterisation of biocatalysts immobilised in niobiumâ€"a new inorganic solid support. Canadian Journal of Chemical Engineering, 2013, 91, 432-440.	1.7	4
130	Direct Head-To-Head Comparison of Cationic Liposome-Mediated Gene Delivery to Mesenchymal Stem/Stromal Cells of Different Human Sources: A Comprehensive Study. Human Gene Therapy Methods, 2013, 24, 38-48.	2.1	24
131	Nonviral Gene Delivery to Neural Stem Cells with Minicircles by Microporation. Biomacromolecules, 2013, 14, 1379-1387.	5.4	17
132	Human mesenchymal stem cells from the umbilical cord matrix: Successful isolation and ex vivo expansion using serumâ€/xenoâ€free culture media. Biotechnology Journal, 2013, 8, 448-458.	3.5	60
133	Bioreactor design for clinicalâ€grade expansion of stem cells. Biotechnology Journal, 2013, 8, 644-654.	3.5	98
134	Modeling Stem Cell Induction Processes. PLoS ONE, 2013, 8, e60240.	2.5	5
135	Mesenchymal stem cells from umbilical cord matrix, adipose tissue and bone marrow exhibit different capability to suppress peripheral blood B, natural killer and T cells. Stem Cell Research and Therapy, 2013, 4, 125.	5.5	213
136	Biocatalytic transesterification of triglycerides and alcohols for the production of biodiesel using cutinase in organic media. Biocatalysis and Biotransformation, 2013, 31, 246-254.	2.0	1
137	An Appraisal of Human Mitochondrial DNA Instability: New Insights into the Role of Non-Canonical DNA Structures and Sequence Motifs. PLoS ONE, 2013, 8, e59907.	2.5	25
138	Intraoperative Stem Cell Therapy. Annual Review of Biomedical Engineering, 2012, 14, 325-349.	12.3	48
139	Separation technologies for stem cell bioprocessing. Biotechnology and Bioengineering, 2012, 109, 2699-2709.	3.3	46
140	Impact of hypoxia and long-term cultivation on the genomic stability and mitochondrial performance of ex vivo expanded human stem/stromal cells. Stem Cell Research, 2012, 9, 225-236.	0.7	51
141	Plasmid DNA Size Does Affect Nonviral Gene Delivery Efficiency in Stem Cells. Cellular Reprogramming, 2012, 14, 130-137.	0.9	46
142	New Insights into the Mechanisms of Embryonic Stem Cell Self-Renewal under Hypoxia: A Multifactorial Analysis Approach. PLoS ONE, 2012, 7, e38963.	2.5	23
143	Genetically engineered stem cellâ€based strategies for articular cartilage regeneration. Biotechnology and Applied Biochemistry, 2012, 59, 121-131.	3.1	11
144	OPTIMIZATION OF FLAVOR ESTERS SYNTHESIS BY FUSARIUM SOLANI PISI CUTINASE. Journal of Food Biochemistry, 2012, 36, 275-284.	2.9	42

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145	Continuous steroid biotransformations in microchannel reactors. New Biotechnology, 2012, 29, 227-234.	4.4	20
146	Human Mesenchymal Stem Cell Expression Program upon Extended Ex-Vivo Cultivation, as Revealed by 2-DE-Based Quantitative Proteomics. PLoS ONE, 2012, 7, e43523.	2.5	51
147	Exploring embryonic stem cell fate using cellular microarrays. , 2011, , .		0
148	An appraisal of genetic stability in human mesenchymal stem cells. , 2011, , .		0
149	Genetic engineering of stem cells by non-viral vectors. , 2011, , .		0
150	Design and operation of bioreactor systems for the expansion of pluripotent stem cell-derived neural stem cells. , 2011, , .		0
151	Ex-vivo expansion of hematopoietic stem cells from umbilical cord blood. , 2011, , .		0
152	Ex Vivo Expansion of Human Mesenchymal Stem Cells on Microcarriers. Methods in Molecular Biology, 2011, 698, 189-198.	0.9	31
153	Magnetoresistive chip cytometer. Lab on A Chip, 2011, 11, 2255.	6.0	64
154	Toward a Clinical-Grade Expansion of Mesenchymal Stem Cells from Human Sources: A Microcarrier-Based Culture System Under Xeno-Free Conditions. Tissue Engineering - Part C: Methods, 2011, 17, 1201-1210.	2.1	209
155	Supercritical carbon dioxide extraction of bioactive compounds from microalgae and volatile oils from aromatic plants. Journal of Supercritical Fluids, 2011, 60, 21-27.	3.2	58
156	Stem cell cultivation in bioreactors. Biotechnology Advances, 2011, 29, 815-829.	11.7	183
157	Synthetic application and activity of cutinase in an aqueous, miniemulsion model system: Hexyl octanoate synthesis. Catalysis Today, 2011, 173, 95-102.	4.4	27
158	A novel method for human hematopoietic stem/progenitor cell isolation from umbilical cord blood based on immunoaffinity aqueous two-phase partitioning. Biotechnology Letters, 2011, 33, 2373-2377.	2.2	34
159	Kinetics and mechanism of the cutinase-catalyzed transesterification of oils in AOT reversed micellar system. Bioprocess and Biosystems Engineering, 2011, 34, 1133-1142.	3.4	9
160	Stability of cutinase, wild type and mutants, in AOT reversed micellar systemâ€"effect of mixture components of alkyl esters production. Journal of Chemical Technology and Biotechnology, 2011, 86, 34-41.	3.2	7
161	Initial CD34⁺ cellâ€enrichment of cord blood determines hematopoietic stem/progenitor cell yield upon Ex vivo expansion. Journal of Cellular Biochemistry, 2011, 112, 1822-1831.	2.6	22
162	Scaleâ€up of mouse embryonic stem cell expansion in stirred bioreactors. Biotechnology Progress, 2011, 27, 1421-1432.	2.6	35

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163	Performance of a cutinase membrane reactor for the production of biodiesel in organic media. Biotechnology and Bioengineering, 2011, 108, 1279-1289.	3.3	20
164	Microcarrier expansion of mouse embryonic stem cellâ€derived neural stem cells in stirred bioreactors. Biotechnology and Applied Biochemistry, 2011, 58, 231-242.	3.1	28
165	Gene delivery to human bone marrow mesenchymal stem cells by microporation. Journal of Biotechnology, 2011, 151, 130-136.	3.8	36
166	Effect of gelatinâ€"ionic liquid functional polymers on glucose oxidase and horseradish peroxidase kinetics. Reactive and Functional Polymers, 2011, 71, 489-495.	4.1	29
167	Spintronic chip cytometer. Journal of Applied Physics, 2011, 109, 07B311.	2.5	3
168	Effect of hypoxia on proliferation and neural commitment of embryonic stem cells at different stages of pluripotency. , 2011, , .		1
169	Evaluation of Ion Jelly biopolymer on glucose biosensing. , 2011, , .		1
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