

Sean P Palecek

List of Publications by Year in descending order

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160
papers

15,132
citations

30070
54
h-index

19749
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176
all docs

176
docs citations

176
times ranked

17273
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct coculture of human pluripotent stem cell-derived cardiac progenitor cells with epicardial cells induces cardiomyocyte proliferation and reduces sarcomere organization. <i>Journal of Molecular and Cellular Cardiology</i> , 2022, 162, 144-157.	1.9	4
2	Intrinsic blood-brain barrier dysfunction contributes to multiple sclerosis pathogenesis. <i>Brain</i> , 2022, 145, 4334-4348.	7.6	37
3	Cilia proteins are biomarkers of altered flow in the vasculature. <i>JCI Insight</i> , 2022, 7, .	5.0	3
4	Advances in Manufacturing Cardiomyocytes from Human Pluripotent Stem Cells. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022, 13, 255-278.	6.8	3
5	Slippery Antifouling Polymer Coatings Fabricated Entirely from Biodegradable and Biocompatible Components. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17940-17949.	8.0	10
6	Directed differentiation of human pluripotent stem cells to epicardial-derived fibroblasts. <i>STAR Protocols</i> , 2022, 3, 101275.	1.2	0
7	Atovaquone: An Inhibitor of Oxidative Phosphorylation as Studied in Gynecologic Cancers. <i>Cancers</i> , 2022, 14, 2297.	3.7	17
8	Ciliogenesis mechanisms mediated by PAK2-ARL13B signaling in brain endothelial cells is responsible for vascular stability. <i>Biochemical Pharmacology</i> , 2022, 202, 115143.	4.4	4
9	Differentiation of Brain Pericyte-Like Cells from Human Pluripotent Stem Cell-Derived Neural Crest. <i>Current Protocols</i> , 2021, 1, e21.	2.9	5
10	Comparative evaluation of isogenic mesodermal and ectomesodermal chondrocytes from human iPSCs for cartilage regeneration. <i>Science Advances</i> , 2021, 7, .	10.3	17
11	Integrative analysis of the human brain mural cell transcriptome. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 3052-3068.	4.3	15
12	Rational, Unbiased Selection of Reference Genes for Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 322-336.	2.1	1
13	Differentiation of human pluripotent stem cells to brain microvascular endothelial cell-like cells suitable to study immune cell interactions. <i>STAR Protocols</i> , 2021, 2, 100563.	1.2	14
14	A human three-dimensional neural-perivascular "assembloid"™ promotes astrocytic development and enables modeling of SARS-CoV-2 neuropathology. <i>Nature Medicine</i> , 2021, 27, 1600-1606.	30.7	94
15	Spatial Stem Cell Fate Engineering via Facile Morphogen Localization. <i>Advanced Healthcare Materials</i> , 2021, 10, 2100995.	7.6	1
16	Developmental lineage of human pluripotent stem cell-derived cardiac fibroblasts affects their functional phenotype. <i>FASEB Journal</i> , 2021, 35, e21799.	0.5	6
17	A comprehensive analysis of gene expression changes in a high replicate and open-source dataset of differentiating hiPSC-derived cardiomyocytes. <i>Scientific Reports</i> , 2021, 11, 15845.	3.3	28
18	Integrating in-vitro disease models of the neurovascular unit into discovery and development of neurotherapeutics. <i>Current Opinion in Biomedical Engineering</i> , 2021, 20, 100341.	3.4	2

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19	Multiomics Method Enabled by Sequential Metabolomics and Proteomics for Human Pluripotent Stem-Cell-Derived Cardiomyocytes. <i>Journal of Proteome Research</i> , 2021, 20, 4646-4654.	3.7	10
20	Wnt signaling mediates acquisition of bloodâ€“brain barrier properties in naÃ“ve endothelium derived from human pluripotent stem cells. <i>ELife</i> , 2021, 10, .	6.0	31
21	Inductive factors for generation of pluripotent stem cell-derived cardiomyocytes. , 2020, , 177-242.		1
22	Commentary on human pluripotent stem cell-based bloodâ€“brain barrier models. <i>Fluids and Barriers of the CNS</i> , 2020, 17, 64.	5.0	75
23	Transcriptomic comparison of human and mouse brain microvessels. <i>Scientific Reports</i> , 2020, 10, 12358.	3.3	89
24	Sonic Hedgehog Signaling in Cranial Neural Crest Cells Regulates Microvascular Morphogenesis in Facial Development. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 590539.	3.7	11
25	Advancing human induced pluripotent stem cellâ€“derived bloodâ€“brain barrier models for studying immune cell interactions. <i>FASEB Journal</i> , 2020, 34, 16693-16715.	0.5	47
26	Adaptable pulsatile flow generated from stem cell-derived cardiomyocytes using quantitative imaging-based signal transduction. <i>Lab on A Chip</i> , 2020, 20, 3744-3756.	6.0	7
27	Metabolomics revealed the influence of breast cancer on lymphatic endothelial cell metabolism, metabolic crosstalk, and lymphangiogenic signaling in co-culture. <i>Scientific Reports</i> , 2020, 10, 21244.	3.3	10
28	Metabolic alterations caused by the mutation and overexpression of the <i>Tmem135</i> gene. <i>Experimental Biology and Medicine</i> , 2020, 245, 1571-1583.	2.4	7
29	Engineered Perineural Vascular Plexus for Modeling Developmental Toxicity. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000825.	7.6	14
30	Human pluripotent stem cell-derived cardiac stromal cells and their applications in regenerative medicine. <i>Stem Cell Research</i> , 2020, 45, 101831.	0.7	6
31	An isogenic neurovascular unit model comprised of human induced pluripotent stem cell-derived brain microvascular endothelial cells, pericytes, astrocytes, and neurons. <i>Fluids and Barriers of the CNS</i> , 2019, 16, 25.	5.0	69
32	Local and systemic metabolic alterations in brain, plasma, and liver of rats in response to aging and ischemic stroke, as detected by nuclear magnetic resonance (NMR) spectroscopy. <i>Neurochemistry International</i> , 2019, 127, 113-124.	3.8	37
33	Small-Molecule Morphogenesis Modulators Enhance the Ability of 14-Helical Î²-Peptides To Prevent <i>Candida albicans</i> Biofilm Formation. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	7
34	Regionally specified human pluripotent stem cell-derived astrocytes exhibit different molecular signatures and functional properties. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	48
35	Hypoxia-enhanced Blood-Brain Barrier Chip recapitulates human barrier function and shuttling of drugs and antibodies. <i>Nature Communications</i> , 2019, 10, 2621.	12.8	371
36	Human pluripotent stem cellâ€“derived brain pericyteâ€“like cells induce blood-brain barrier properties. <i>Science Advances</i> , 2019, 5, eaau7375.	10.3	135

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37	Coculture of Endothelial Cells with Human Pluripotent Stem Cellâ€Derived Cardiac Progenitors Reveals a Differentiation Stageâ€Specific Enhancement of Cardiomyocyte Maturation. <i>Biotechnology Journal</i> , 2019, 14, e1800725.	3.5	41
38	Directed Differentiation of Human Pluripotent Stem Cells to Podocytes under Defined Conditions. <i>Scientific Reports</i> , 2019, 9, 2765.	3.3	25
39	Preventing <i>S. aureus</i> biofilm formation on titanium surfaces by the release of antimicrobial Î²-peptides from polyelectrolyte multilayers. <i>Acta Biomaterialia</i> , 2019, 93, 50-62.	8.3	45
40	14-Helical Î²-Peptides Elicit Toxicity against <i>C. albicans</i> by Forming Pores in the Cell Membrane and Subsequently Disrupting Intracellular Organelles. <i>Cell Chemical Biology</i> , 2019, 26, 289-299.e4.	5.2	22
41	Hyaluronan impairs the barrier integrity of brain microvascular endothelial cells through a CD44-dependent pathway. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1759-1775.	4.3	43
42	Regenerative Medicine Manufacturing. <i>Biotechnology Journal</i> , 2018, 13, .	3.5	0
43	Activation of RARÎ±, RARÎ³, or RXRÎ± Increases Barrier Tightness in Human Induced Pluripotent Stem Cellâ€Derived Brain Endothelial Cells. <i>Biotechnology Journal</i> , 2018, 13, 1700093.	3.5	39
44	Bioengineering Solutions for Manufacturing Challenges in CAR T Cells. <i>Biotechnology Journal</i> , 2018, 13, 1700095.	3.5	56
45	Modeling the bloodâ€brain barrier: Beyond the endothelial cells. <i>Current Opinion in Biomedical Engineering</i> , 2018, 5, 6-12.	3.4	88
46	Organotypic microfluidic breast cancer model reveals starvation-induced spatial-temporal metabolic adaptations. <i>EBioMedicine</i> , 2018, 37, 144-157.	6.1	68
47	Software to improve transfer and reproducibility of cell culture methods. <i>BioTechniques</i> , 2018, 65, 289-292.	1.8	0
48	Engineering Scalable Manufacturing of High-Quality Stem Cell-Derived Cardiomyocytes for Cardiac Tissue Repair. <i>Frontiers in Medicine</i> , 2018, 5, 110.	2.6	34
49	Advances in applications of metabolomics in pluripotent stem cell research. <i>Current Opinion in Chemical Engineering</i> , 2017, 15, 36-43.	7.8	8
50	Blockade to pathological remodeling of infarcted heart tissue using a porcupine antagonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1649-1654.	7.1	53
51	Modeling Psychomotor Retardation using iPSCs from MCT8-Deficient Patients Indicates a Prominent Role for the Blood-Brain Barrier. <i>Cell Stem Cell</i> , 2017, 20, 831-843.e5.	11.1	181
52	Human pluripotent stem cellâ€derived epicardial progenitors can differentiate to endocardialâ€like endothelial cells. <i>Bioengineering and Translational Medicine</i> , 2017, 2, 191-201.	7.1	43
53	An isogenic bloodâ€brain barrier model comprising brain endothelial cells, astrocytes, and neurons derived from human induced pluripotent stem cells. <i>Journal of Neurochemistry</i> , 2017, 140, 874-888.	3.9	201
54	Long-term self-renewing human epicardial cells generated from pluripotent stem cells under defined xeno-free conditions. <i>Nature Biomedical Engineering</i> , 2017, 1, .	22.5	86

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55	Directed differentiation and long-term maintenance of epicardial cells derived from human pluripotent stem cells under fully defined conditions. <i>Nature Protocols</i> , 2017, 12, 1890-1900.	12.0	40
56	Modeling Group B<i>Streptococcus</i> and Blood-Brain Barrier Interaction by Using Induced Pluripotent Stem Cell-Derived Brain Endothelial Cells. <i>MSphere</i> , 2017, 2, .	2.9	46
57	Directed differentiation of human pluripotent stem cells to blood-brain barrier endothelial cells. <i>Science Advances</i> , 2017, 3, e1701679.	10.3	177
58	Incorporation of Î²-Amino Acids Enhances the Antifungal Activity and Selectivity of the Helical Antimicrobial Peptide Aurein 1.2. <i>ACS Chemical Biology</i> , 2017, 12, 2975-2980.	3.4	18
59	Metabolomics Identifies Metabolic Markers of Maturation in Human Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Theranostics</i> , 2017, 7, 2078-2091.	10.0	31
60	Inhibition of Focal Adhesion Kinase Signaling by Integrin Î±6Î²1 Supports Human Pluripotent Stem Cell Self-Renewal. <i>Stem Cells</i> , 2016, 34, 1753-1764.	3.2	60
61	Directed Endothelial Progenitor Differentiation from Human Pluripotent Stem Cells Via Wnt Activation Under Defined Conditions. <i>Methods in Molecular Biology</i> , 2016, 1481, 183-196.	0.9	21
62	Antifungal activity of a Î²-peptide in synthetic urine media: Toward materials-based approaches to reducing catheter-associated urinary tract fungal infections. <i>Acta Biomaterialia</i> , 2016, 43, 240-250.	8.3	28
63	Analysis of Cancer-Targeting Alkylphosphocholine Analogue Permeability Characteristics Using a Human Induced Pluripotent Stem Cell Bloodâ€“Brain Barrier Model. <i>Molecular Pharmaceutics</i> , 2016, 13, 3341-3349.	4.6	36
64	Cryopreservation of Brain Endothelial Cells Derived from Human Induced Pluripotent Stem Cells Is Enhanced by Rho-Associated Coiled Coil-Containing Kinase Inhibition. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 1085-1094.	2.1	24
65	Sucrose Nonfermenting-Related Kinase Enzymeâ€“Mediated Rho-Associated Kinase Signaling is Responsible for Cardiac Function. <i>Circulation: Cardiovascular Genetics</i> , 2016, 9, 474-486.	5.1	13
66	The Poly (ADP-Ribose) Polymerase Inhibitor Veliparib and Radiation Cause Significant Cell Line Dependent Metabolic Changes in Breast Cancer Cells. <i>Scientific Reports</i> , 2016, 6, 36061.	3.3	25
67	Slippery Liquidâ€“Infused Porous Surfaces that Prevent Microbial Surface Fouling and Kill Nonâ€“Adherent Pathogens in Surrounding Media: A Controlled Release Approach. <i>Advanced Functional Materials</i> , 2016, 26, 3599-3611.	14.9	132
68	Human pluripotent stem cell culture density modulates YAP signaling. <i>Biotechnology Journal</i> , 2016, 11, 662-675.	3.5	51
69	Intraluminal Release of an Antifungal Î²-Peptide Enhances the Antifungal and Anti-Biofilm Activities of Multilayer-Coated Catheters in a Rat Model of Venous Catheter Infection. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 112-121.	5.2	29
70	Differentiation and characterization of human pluripotent stem cell-derived brain microvascular endothelial cells. <i>Methods</i> , 2016, 101, 93-102.	3.8	123
71	Hydrophobicity of Antifungal Î²-Peptides Is Associated with Their Cytotoxic Effect on In Vitro Human Colon Caco-2 and Liver HepG2 Cells. <i>PLoS ONE</i> , 2016, 11, e0149271.	2.5	12
72	Editorial: Stem Cell Engineering. <i>Biotechnology Journal</i> , 2015, 10, 1509-1510.	3.5	1

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73	Exploring the effects of cell seeding density on the differentiation of human pluripotent stem cells to brain microvascular endothelial cells. <i>Fluids and Barriers of the CNS</i> , 2015, 12, 13.	5.0	106
74	Antifungal Activity of 14-Helical β -Peptides against Planktonic Cells and Biofilms of <i>Candida</i> Species. <i>Pharmaceuticals</i> , 2015, 8, 483-503.	3.8	29
75	<i>Sucrose non-fermenting related kinase</i> enzyme is essential for cardiac metabolism. <i>Biology Open</i> , 2015, 4, 48-61.	1.2	20
76	β -5 Laminin Synthesized by Human Pluripotent Stem Cells Promotes Self-Renewal. <i>Stem Cell Reports</i> , 2015, 5, 195-206.	4.8	59
77	Chemically defined, albumin-free human cardiomyocyte generation. <i>Nature Methods</i> , 2015, 12, 595-596.	19.0	129
78	Epidermal growth factor mediated healing in stem cell-derived vocal fold mucosa. <i>Journal of Surgical Research</i> , 2015, 197, 32-38.	1.6	12
79	Advances in microfluidic platforms for analyzing and regulating human pluripotent stem cells. <i>Current Opinion in Genetics and Development</i> , 2015, 34, 54-60.	3.3	18
80	Metabolic responses induced by DNA damage and poly (ADP-ribose) polymerase (PARP) inhibition in MCF-7 cells. <i>Metabolomics</i> , 2015, 11, 1779-1791.	3.0	20
81	Chemically-defined albumin-free differentiation of human pluripotent stem cells to endothelial progenitor cells. <i>Stem Cell Research</i> , 2015, 15, 122-129.	0.7	71
82	Influence of substrate composition on human embryonic stem cell differentiation and extracellular matrix production in embryoid bodies. <i>Biotechnology Progress</i> , 2015, 31, 212-219.	2.6	13
83	Efficient Differentiation of Human Pluripotent Stem Cells to Endothelial Progenitors via Small-Molecule Activation of WNT Signaling. <i>Stem Cell Reports</i> , 2014, 3, 804-816.	4.8	271
84	Concise Review: Tissue-Specific Microvascular Endothelial Cells Derived From Human Pluripotent Stem Cells. <i>Stem Cells</i> , 2014, 32, 3037-3045.	3.2	60
85	Effects of 3D microwell culture on initial fate specification in human embryonic stem cells. <i>AIChE Journal</i> , 2014, 60, 1225-1235.	3.6	13
86	Temporal impact of substrate mechanics on differentiation of human embryonic stem cells to cardiomyocytes. <i>Acta Biomaterialia</i> , 2014, 10, 604-612.	8.3	62
87	A Global Assessment of Stem Cell Engineering. <i>Tissue Engineering - Part A</i> , 2014, 20, 2575-2589.	3.1	7
88	Substratum-induced differentiation of human pluripotent stem cells reveals the coactivator YAP is a potent regulator of neuronal specification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13805-13810.	7.1	153
89	Structure-Activity Relationships among Antifungal Nylon-3 Polymers: Identification of Materials Active against Drug-Resistant Strains of <i>Candida albicans</i> . <i>Journal of the American Chemical Society</i> , 2014, 136, 4333-4342.	13.7	113
90	Hydrophobicity and Helicity Regulate the Antifungal Activity of 14-Helical β -Peptides. <i>ACS Chemical Biology</i> , 2014, 9, 1613-1621.	3.4	53

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91	Polymer multilayers loaded with antifungal β -peptides kill planktonic <i>Candida albicans</i> and reduce formation of fungal biofilms on the surfaces of flexible catheter tubes. <i>Journal of Controlled Release</i> , 2014, 191, 54-62.	9.9	48
92	A retinoic acid-enhanced, multicellular human blood-brain barrier model derived from stem cell sources. <i>Scientific Reports</i> , 2014, 4, 4160.	3.3	390
93	Modeling the blood-brain barrier using stem cell sources. <i>Fluids and Barriers of the CNS</i> , 2013, 10, 2.	5.0	105
94	Multiplexed tyrosine kinase activity detection in cancer cells using a hydrogel immobilized substrate. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 5489-5499.	3.7	3
95	Directed cardiomyocyte differentiation from human pluripotent stem cells by modulating Wnt/ β -catenin signaling under fully defined conditions. <i>Nature Protocols</i> , 2013, 8, 162-175.	12.0	1,353
96	Engineering the human pluripotent stem cell microenvironment to direct cell fate. <i>Biotechnology Advances</i> , 2013, 31, 1002-1019.	11.7	61
97	Efficient Generation of Functional Epithelial and Epidermal Cells from Human Pluripotent Stem Cells Under Defined Conditions. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 949-960.	2.1	21
98	Insulin Inhibits Cardiac Mesoderm, Not Mesendoderm, Formation During Cardiac Differentiation of Human Pluripotent Stem Cells and Modulation of Canonical Wnt Signaling Can Rescue This Inhibition. <i>Stem Cells</i> , 2013, 31, 447-457.	3.2	57
99	Human Embryonic Stem Cell-Derived Epithelial Cells in a Novel <i>In Vitro</i> Model of Vocal Mucosa. <i>Tissue Engineering - Part A</i> , 2013, 19, 2233-2241.	3.1	25
100	Improving efficiency of human pluripotent stem cell differentiation platforms using an integrated experimental and computational approach. <i>Biotechnology and Bioengineering</i> , 2013, 110, 3024-3037.	3.3	9
101	Editorial: Stem cell engineering – discovery, diagnostics and therapies. <i>Biotechnology Journal</i> , 2013, 8, 390-391.	3.5	4
102	Activity Assay of Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitors in Triple-Negative Breast Cancer Cells Using Peptide-Conjugated Magnetic Beads. <i>Assay and Drug Development Technologies</i> , 2013, 11, 44-51.	1.2	1
103	A Small Molecule Inhibitor of Src Family Kinases Promotes Simple Epithelial Differentiation of Human Pluripotent Stem Cells. <i>PLoS ONE</i> , 2013, 8, e60016.	2.5	30
104	Extracellular Matrix Promotes Highly Efficient Cardiac Differentiation of Human Pluripotent Stem Cells. <i>Circulation Research</i> , 2012, 111, 1125-1136.	4.5	416
105	Microwell Regulation of Pluripotent Stem Cell Self-Renewal and Differentiation. <i>BioNanoScience</i> , 2012, 2, 266-276.	3.5	16
106	Macroporous hydrogel micropillars for quantifying Met kinase activity in cancer cell lysates. <i>Analyst</i> , 2012, 137, 4052.	3.5	7
107	Derivation of blood-brain barrier endothelial cells from human pluripotent stem cells. <i>Nature Biotechnology</i> , 2012, 30, 783-791.	17.5	623
108	Protein Analytical Assays for Diagnosing, Monitoring, and Choosing Treatment for Cancer Patients. <i>Journal of Healthcare Engineering</i> , 2012, 3, 503-534.	1.9	48

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109	Robust cardiomyocyte differentiation from human pluripotent stem cells via temporal modulation of canonical Wnt signaling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1848-57.	7.1	1,376
110	Effects of 3D microwell culture on growth kinetics and metabolism of human embryonic stem cells. Biotechnology and Applied Biochemistry, 2012, 59, 88-96.	3.1	15
111	Quantification of kinase activity in cell lysates via photopatterned macroporous poly(ethylene glycol) hydrogel arrays in microfluidic channels. Biomedical Microdevices, 2012, 14, 247-257.	2.8	24
112	Modulation of Wnt/ β -catenin signaling in human embryonic stem cells using a 3-D microwell array. Biomaterials, 2012, 33, 2041-2049.	11.4	68
113	Fabrication and Selective Functionalization of Amine-Reactive Polymer Multilayers on Topographically Patterned Microwell Cell Culture Arrays. Biomacromolecules, 2011, 12, 1998-2007.	5.4	46
114	Short Alkylated Peptoid Mimics of Antimicrobial Lipopeptides. Antimicrobial Agents and Chemotherapy, 2011, 55, 417-420.	3.2	108
115	Development of Macroporous Poly(ethylene glycol) Hydrogel Arrays within Microfluidic Channels. Biomacromolecules, 2010, 11, 3316-3324.	5.4	100
116	Development of scalable culture systems for human embryonic stem cells. Biochemical Engineering Journal, 2010, 48, 378-384.	3.6	52
117	Quantifying the sensitivities of EGF receptor (EGFR) tyrosine kinase inhibitors in drug resistant non-small cell lung cancer (NSCLC) cells using hydrogel-based peptide array. Biosensors and Bioelectronics, 2010, 26, 424-431.	10.1	18
118	The microwell control of embryoid body size in order to regulate cardiac differentiation of human embryonic stem cells. Biomaterials, 2010, 31, 1885-1893.	11.4	184
119	Human Embryonic Stem Cell-Derived Keratinocytes Exhibit an Epidermal Transcription Program and Undergo Epithelial Morphogenesis in Engineered Tissue Constructs. Tissue Engineering - Part A, 2010, 16, 213-223.	3.1	37
120	Matrix Revolutions: A Trinity of Defined Substrates for Long-Term Expansion of Human ESCs. Cell Stem Cell, 2010, 7, 7-8.	11.1	18
121	Polyelectrolyte Multilayers Fabricated from Antifungal β -Peptides: Design of Surfaces that Exhibit Antifungal Activity Against Candida albicans. Biomacromolecules, 2010, 11, 2321-2328.	5.4	72
122	Scalable culture and cryopreservation of human embryonic stem cells on microcarriers. Biotechnology Progress, 2009, 25, 20-31.	2.6	157
123	Hydrogel-based protein array for quantifying epidermal growth factor receptor activity in cell lysates. Analytical Biochemistry, 2009, 393, 205-214.	2.4	14
124	Effect of Sequence and Structural Properties on 14-Helical β -Peptide Activity against <i>Candida albicans</i> Planktonic Cells and Biofilms. ACS Chemical Biology, 2009, 4, 567-579.	3.4	76
125	Functional Cardiomyocytes Derived From Human Induced Pluripotent Stem Cells. Circulation Research, 2009, 104, e30-41.	4.5	1,202
126	The response of human embryonic stem cell-derived endothelial cells to shear stress. Biotechnology and Bioengineering, 2008, 100, 830-837.	3.3	83

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127	Optically Responsive and Mechanically Tunable Colloid-Liquid Crystal Gels that Support Growth of Fibroblasts. <i>Advanced Materials</i> , 2008, 20, 4804-4809.	21.0	40
128	Innovation in the culture and derivation of pluripotent human stem cells. <i>Current Opinion in Biotechnology</i> , 2008, 19, 527-533.	6.6	72
129	Deletion of MAG1 and MRE11 enhances the sensitivity of the <i>Saccharomyces cerevisiae</i> HUG1P-GFP promoter-reporter construct to genotoxicity. <i>Biosensors and Bioelectronics</i> , 2008, 24, 736-741.	10.1	17
130	Enzyme Encapsulation in Permeabilized <i>Saccharomyces cerevisiae</i> Cells. <i>Biotechnology Progress</i> , 2008, 20, 449-456.	2.6	38
131	TGF β 2/Activin/Nodal Pathway in Inhibition of Human Embryonic Stem Cell Differentiation by Mechanical Strain. <i>Biophysical Journal</i> , 2008, 94, 4123-4133.	0.5	110
132	Retinoic Acid and Bone Morphogenetic Protein Signaling Synergize to Efficiently Direct Epithelial Differentiation of Human Embryonic Stem Cells. <i>Stem Cells</i> , 2008, 26, 372-380.	3.2	150
133	Distinct domains of the <i>Candida albicans</i> adhesin Eap1p mediate cell-cell and cell-substrate interactions. <i>Microbiology (United Kingdom)</i> , 2008, 154, 1193-1203.	1.8	82
134	Eap1p, an Adhesin That Mediates <i>Candida albicans</i> Biofilm Formation In Vitro and In Vivo. <i>Eukaryotic Cell</i> , 2007, 6, 931-939.	3.4	124
135	Engineering the Stem Cell Microenvironment. <i>Biotechnology Progress</i> , 2007, 23, 18-23.	2.6	114
136	Photocleavable peptide hydrogel arrays for MALDI-TOF analysis of kinase activity. <i>Analyst</i> , 2006, 131, 1097.	3.5	21
137	Antifungal Activity from 14-Helical β -Peptides. <i>Journal of the American Chemical Society</i> , 2006, 128, 12630-12631.	13.7	145
138	Electroporation of Human Embryonic Stem Cells: Small and Macromolecule Loading and DNA Transfection. <i>Biotechnology Progress</i> , 2006, 22, 825-834.	2.6	27
139	3-D microwell culture of human embryonic stem cells. <i>Biomaterials</i> , 2006, 27, 6032-6042.	11.4	216
140	Inhibition of human embryonic stem cell differentiation by mechanical strain. <i>Journal of Cellular Physiology</i> , 2006, 206, 126-137.	4.1	143
141	Generation and Differentiation of Human Embryonic Stem Cell-Derived Keratinocyte Precursors. <i>Tissue Engineering</i> , 2006, 12, 665-679.	4.6	50
142	Identification of <i>Candida albicans</i> Genes that Induce <i>Saccharomyces cerevisiae</i> Cell Adhesion and Morphogenesis. <i>Biotechnology Progress</i> , 2005, 21, 1601-1609.	2.6	26
143	Platelet cryopreservation using a trehalose and phosphate formulation. <i>Biotechnology and Bioengineering</i> , 2005, 92, 79-90.	3.3	19
144	Disruption of LRG1 inhibits mother-daughter separation in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2005, 22, 1117-1132.	1.7	10

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145	Protein~Acrylamide Copolymer Hydrogels for Array-Based Detection of Tyrosine Kinase Activity from Cell Lysates. <i>Biomacromolecules</i> , 2005, 6, 2765-2775.	5.4	36
146	<i>Saccharomyces cerevisiae</i> JEN1 Promoter Activity Is Inversely Related to Concentration of Repressing Sugar. <i>Applied and Environmental Microbiology</i> , 2004, 70, 8-17.	3.1	32
147	Effect of pH, Counter Ion, and Phosphate Concentration on the Glass Transition Temperature of Freeze-Dried Sugar-Phosphate Mixtures. <i>Pharmaceutical Research</i> , 2004, 21, 1615-1621.	3.5	53
148	Cryopreservation of adherent human embryonic stem cells. <i>Biotechnology and Bioengineering</i> , 2004, 88, 299-312.	3.3	124
149	Use of protein~acrylamide copolymer hydrogels for measuring protein concentration and activity. <i>Analytical Biochemistry</i> , 2004, 329, 180-189.	2.4	27
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