## CITATION REPORT List of articles citing

Suspension culture of human pluripotent stem cells in controlled, stirred bioreactors

DOI: 10.1089/ten.tec.2011.0717 Tissue Engineering - Part C: Methods, 2012, 18, 772-84.

**Source:** https://exaly.com/paper-pdf/53583201/citation-report.pdf

Version: 2024-04-09

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
164	Scalable production of embryonic stem cell-derived cardiomyocytes. <b>2003</b> , 9, 767-78		252
163	Engineered MSCs from Patient-Specific iPS Cells. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2013</b> , 130, 1-17	1.7	8
162	Hydrodynamic modulation of pluripotent stem cells. Stem Cell Research and Therapy, 2012, 3, 45	8.3	42
161	Considerations in the Development of Pluripotent Stem Cell-based Therapies. <b>2013</b> , 373-408		
160	Bioreactors as engineering support to treat cardiac muscle and vascular disease. <b>2013</b> , 4, 329-70		28
159	Technological progress and challenges towards cGMP manufacturing of human pluripotent stem cells based therapeutic products for allogeneic and autologous cell therapies. <b>2013</b> , 31, 1600-23		73
158	Scalable expansion of human induced pluripotent stem cells in the defined xeno-free E8 medium under adherent and suspension culture conditions. <b>2013</b> , 11, 1103-16		104
157	Bioreactor design for clinical-grade expansion of stem cells. <b>2013</b> , 8, 644-54		75
156	Expansion of mesenchymal stem cells under atmospheric carbon dioxide. <i>Biotechnology Progress</i> , <b>2013</b> , 29, 1298-306	2.8	5
155	Adaptation to robust monolayer expansion produces human pluripotent stem cells with improved viability. <i>Stem Cells Translational Medicine</i> , <b>2013</b> , 2, 246-54	6.9	28
154	Transforming the promise of pluripotent stem cell-derived cardiomyocytes to a therapy: challenges and solutions for clinical trials. <b>2014</b> , 30, 1335-49		23
153	Controlling expansion and cardiomyogenic differentiation of human pluripotent stem cells in scalable suspension culture. <b>2014</b> , 3, 1132-46		160
152	Human pluripotent stem cell-derived cardiomyocytes as research and therapeutic tools. <b>2014</b> , 2014, 512831		39
151	A 3D sphere culture system containing functional polymers for large-scale human pluripotent stem cell production. <b>2014</b> , 2, 734-45		91
150	Design of large-scale manufacturing of induced pluripotent stem cell derived cardiomyocytes. <b>2014</b> , 92, 1142-1152		16
149	Stem cell bioprocessing for regenerative medicine. <b>2014</b> , 89, 34-47		26
148	Stem cell engineering in bioreactors for large-scale bioprocessing. <b>2014</b> , 14, 4-15		45

147	Expansion of embryonic stem cells in suspension and fibrous bed bioreactors. <b>2014</b> , 178, 54-64		4
146	Proliferation, morphology, and pluripotency of mouse induced pluripotent stem cells in three different types of alginate beads for mass production. <i>Biotechnology Progress</i> , <b>2014</b> , 30, 896-904	2.8	18
145	A massive suspension culture system with metabolic purification for human pluripotent stem cell-derived cardiomyocytes. <i>Stem Cells Translational Medicine</i> , <b>2014</b> , 3, 1473-83	6.9	56
144	Cleavage of E-cadherin and Eatenin by calpain affects Wnt signaling and spheroid formation in suspension cultures of human pluripotent stem cells. <b>2014</b> , 13, 990-1007		41
143	Efficient and scalable expansion of human pluripotent stem cells under clinically compliant settings: a view in 2013. <b>2014</b> , 42, 1357-72		41
142	CFTR functional measurements in human models for diagnosis, prognosis and personalized therapy: Report on the pre-conference meeting to the 11th ECFS Basic Science Conference, Malta, 26-29 March 2014. <b>2014</b> , 13, 363-72		28
141	Factorial experimental design for the culture of human embryonic stem cells as aggregates in stirred suspension bioreactors reveals the potential for interaction effects between bioprocess parameters. <i>Tissue Engineering - Part C: Methods</i> , <b>2014</b> , 20, 76-89	2.9	45
140	Stirred Tank Reactors for Cell Culture Technology. <b>2014</b> , 216-316		1
139	Correction of image artifacts caused by refractive index gradients in scanning laser optical tomography. <b>2014</b> ,		1
138	Pluripotent stem cells for disease modeling and drug screening: new perspectives for treatment of cystic fibrosis?. <b>2015</b> , 2, 15		11
137	A reproducible and versatile system for the dynamic expansion of human pluripotent stem cells in suspension. <b>2015</b> , 10, 1589-99		23
136	Scalable 96-well Plate Based iPSC Culture and Production Using a Robotic Liquid Handling System. Journal of Visualized Experiments, <b>2015</b> , e52755	1.6	9
135	Advances in cell culture: anchorage dependence. <b>2015</b> , 370, 20140040		87
134	Bioreactor Development for Lung Tissue Engineering. <b>2015</b> , 2, 90-97		22
133	New muscle for old hearts: engineering tissue from pluripotent stem cells. <b>2015</b> , 26, 305-11		5
132	Cardiac differentiation of human pluripotent stem cells in scalable suspension culture. <i>Nature Protocols</i> , <b>2015</b> , 10, 1345-61	18.8	105
131	Large scale industrialized cell expansion: producing the critical raw material for biofabrication processes. <i>Biofabrication</i> , <b>2015</b> , 7, 044103	10.5	39
130	Induced Pluripotent Stem Cell Differentiation under Constant Shear Stress. <b>2015</b> , 7-10		

129	Human pluripotent stem cell-derived products: advances towards robust, scalable and cost-effective manufacturing strategies. <b>2015</b> , 10, 83-95		68
128	Live fluorescent RNA-based detection of pluripotency gene expression in embryonic and induced pluripotent stem cells of different species. <b>2015</b> , 33, 392-402		20
127	Optimization of agitation speed in spinner flask for microcarrier structural integrity and expansion of induced pluripotent stem cells. <b>2016</b> , 68, 45-59		30
126	Building A New Treatment For Heart Failure-Transplantation of Induced Pluripotent Stem Cell-derived Cells into the Heart. <b>2016</b> , 16, 5-13		19
125	Site-Specific Genome Engineering in Human Pluripotent Stem Cells. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	11
124	A Versatile Bioreactor for Dynamic Suspension Cell Culture. Application to the Culture of Cancer Cell Spheroids. <i>PLoS ONE</i> , <b>2016</b> , 11, e0154610	3.7	36
123	Serum replacement with albumin-associated lipids prevents excess aggregation and enhances growth of induced pluripotent stem cells in suspension culture. <i>Biotechnology Progress</i> , <b>2016</b> , 32, 1009-1	28 6	9
122	Bulk cell density and Wnt/TGFbeta signalling regulate mesendodermal patterning of human pluripotent stem cells. <b>2016</b> , 7, 13602		74
121	Periodic harvesting of embryonic stem cells from a hollow-fiber membrane based four-compartment bioreactor. <i>Biotechnology Progress</i> , <b>2016</b> , 32, 141-51	2.8	9
120	Reproducible preparation of spheroids of pancreatic hormone positive cells from human iPS cells: An in vitro study. <b>2016</b> , 1860, 2008-16		12
119	Hepatic Differentiation of Human Induced Pluripotent Stem Cells in a Perfused Three-Dimensional Multicompartment Bioreactor. <b>2016</b> , 5, 235-48		35
118	Biomechanics in Stem Cell Manufacturing. <b>2016</b> , 27-42		1
117	Bioreactors for Expansion of Pluripotent Stem Cells and Their Differentiation to Cardiac Cells. <b>2016</b> , 175-200		2
116	Impact of Feeding Strategies on the Scalable Expansion of Human Pluripotent Stem Cells in Single-Use Stirred Tank Bioreactors. <i>Stem Cells Translational Medicine</i> , <b>2016</b> , 5, 1289-1301	6.9	90
115	Scaling up a chemically-defined aggregate-based suspension culture system for neural commitment of human pluripotent stem cells. <b>2016</b> , 11, 1628-1638		14
114	Embryonic Stem Cells. <b>2016</b> , 447-486		
113	Nutrient Regulation by Continuous Feeding for Large-scale Expansion of Mammalian Cells in Spheroids. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	1
112	A new computer-controlled air-liquid interface cultivation system for the generation of differentiated cell cultures of the airway epithelium. <b>2016</b> , 68, 77-87		27

## (2018-2016)

111	Adaptable stirred-tank culture strategies for large scale production of multicellular spheroid-based tumor cell models. <b>2016</b> , 221, 118-29		66
110	Large-scale production of human pluripotent stem cell derived cardiomyocytes. <b>2016</b> , 96, 18-30		75
109	Expansion of 3D human induced pluripotent stem cell aggregates in bioreactors: Bioprocess intensification and scaling-up approaches. <b>2017</b> , 246, 81-93		54
108	Impact of fluidic agitation on human pluripotent stem cells in stirred suspension culture.  Biotechnology and Bioengineering, 2017, 114, 2109-2120	4.9	12
107	Induced Pluripotent Stem Cells and Cartilage Regeneration. 2017, 73-93		1
106	Differentiation of cardiomyocytes and generation of human engineered heart tissue. <i>Nature Protocols</i> , <b>2017</b> , 12, 1177-1197	18.8	134
105	Size- and time-dependent growth properties of human induced pluripotent stem cells in the culture of single aggregate. <b>2017</b> , 124, 469-475		16
104	Stem Cell Spheroids and Ex Vivo Niche Modeling: Rationalization and Scaling-Up. <b>2017</b> , 10, 150-166		20
103	Current state and perspectives in modeling and control of human pluripotent stem cell expansion processes in stirred-tank bioreactors. <i>Biotechnology Progress</i> , <b>2017</b> , 33, 355-364	2.8	8
102	Road to Heart Regeneration with Induced Pluripotent Stem Cells. 2017, 137-152		
101	Expansion of human pluripotent stem cells. <b>2017</b> , 15, 24-35		11
100	Scalable Cardiac Differentiation of Pluripotent Stem Cells Using Specific Growth Factors and Small Molecules. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2018</b> , 163, 39-69	1.7	15
99	Scalable Expansion of Pluripotent Stem Cells. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2018</b> , 163, 23-37	1.7	6
98	Efficient Large-Scale 2D Culture System for Human Induced Pluripotent Stem Cells and Differentiated Cardiomyocytes. <b>2017</b> , 9, 1406-1414		58
97	Optimizing Human Induced Pluripotent Stem Cell Expansion in Stirred-Suspension Culture. <b>2017</b> , 26, 1804-1817		21
96	Sensitivity of human pluripotent stem cells to insulin precipitation induced by peristaltic pump-based medium circulation: considerations on process development. <i>Scientific Reports</i> , <b>2017</b> , 7, 3950	4.9	8
95	Future Challenges in the Generation of Hepatocyte-Like Cells From Human Pluripotent Stem Cells. <b>2017</b> , 5, 301-314		1
94	Bioengineered Cardiac Tissue Based on Human Stem Cells for Clinical Application. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2018</b> , 163, 117-146	1.7	1

93	Cell fiber-based three-dimensional culture system for highly efficient expansion of human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 2850	4.9	17
92	Allogeneic cell therapy manufacturing: process development technologies and facility design options. <b>2017</b> , 17, 1201-1219		19
91	Progress and challenges in large-scale expansion of human pluripotent stem cells. <b>2017</b> , 59, 244-254		94
90	Long-term expansion of human induced pluripotent stem cells in a microcarrier-based dynamic system. <b>2017</b> , 92, 492-503		21
89	Culture medium refinement by dialysis for the expansion of human induced pluripotent stem cells in suspension culture. <b>2017</b> , 40, 123-131		21
88	Therapeutic Application of Pluripotent Stem Cells: Challenges and Risks. <b>2017</b> , 4, 229		44
87	Transplantation of purified iPSC-derived cardiomyocytes in myocardial infarction. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173222	3.7	37
86	Environmental Control in Flow Bioreactors. <i>Processes</i> , <b>2017</b> , 5, 16	2.9	10
85	Automated Closed-System Expansion of Pluripotent Stem Cell Aggregates in a Rocking-Motion Bioreactor. <b>2018</b> , 23, 364-373		13
84	Differentiation of Human Pluripotent Stem Cells into Functional Endothelial Cells in Scalable Suspension Culture. <b>2018</b> , 10, 1657-1672		51
83	Botulinum hemagglutinin-mediated in situ break-up of human induced pluripotent stem cell aggregates for high-density suspension culture. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 910-920	4.9	11
82	Methods for Expansion of Three-Dimensional Cultures of Human Embryonic Stem Cells Using a Thermoresponsive Polymer. <i>Tissue Engineering - Part C: Methods</i> , <b>2018</b> , 24, 146-157	2.9	2
81	Laser bioprinting of human induced pluripotent stem cells-the effect of printing and biomaterials on cell survival, pluripotency, and differentiation. <i>Biofabrication</i> , <b>2018</b> , 10, 035005	10.5	61
80	Review: bioreactor design towards generation of relevant engineered tissues: focus on clinical translation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, e7-e22	4.4	29
79	Bioreactor-based mass production of human iPSC-derived macrophages enables immunotherapies against bacterial airway infections. <b>2018</b> , 9, 5088		65
78	A Novel Strategy for Simple and Robust Expansion of Human Pluripotent Stem Cells Using Botulinum Hemagglutinin. <b>2018</b> , 1077, 19-29		2
77	Induced Pluripotent Stem Cell-Derived Red Blood Cells, Megakaryocytes, and Platelets: Progress and Challenges. <b>2018</b> , 4, 310-317		3
76	A fully defined static suspension culture system for large-scale human embryonic stem cell production. <b>2018</b> , 9, 892		15

75	A scale out approach towards neural induction of human induced pluripotent stem cells for neurodevelopmental toxicity studies. <b>2018</b> , 294, 51-60		12	
74	Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal Stem/Stromal Cells and Beta Cells. <i>Stem Cells International</i> , <b>2018</b> , 2018, 2547098	5	12	
73	Bioprocesses for Cell Therapies. <b>2018</b> , 899-930		3	
72	Modulating cell state to enhance suspension expansion of human pluripotent stem cells. <b>2018</b> , 115, 6.	369-637	<b>74</b> 18	
71	How to build a lung: latest advances and emerging themes in lung bioengineering. 2018, 52,		36	
70	Integrated Biologics Manufacturing in Stirred-Suspension Bioreactor: A Stem Cell Perspective. <b>2019</b>			
69	Continuous WNT Control Enables Advanced hPSC Cardiac Processing and Prognostic Surface Marker Identification in Chemically Defined Suspension Culture. <b>2019</b> , 13, 366-379		35	
68	Modeling methodology for defining a priori the hydrodynamics of a dynamic suspension bioreactor. Application to human induced pluripotent stem cell culture. <b>2019</b> , 94, 99-106		4	
67	Induced Cell Turnover and the Future of Regenerative Medicine. 2019, 413-422			
66	Computational fluid dynamics modeling, a novel, and effective approach for developing scalable cell therapy manufacturing processes. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 3228-3241	4.9	14	
65	Scaffold-Free Bioprinter Utilizing Layer-By-Layer Printing of Cellular Spheroids. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	10	
64	Automated real-time monitoring of human pluripotent stem cell aggregation in stirred tank reactors. <i>Scientific Reports</i> , <b>2019</b> , 9, 12297	4.9	16	
63	Chemically defined and xenogeneic-free differentiation of human pluripotent stem cells into definitive endoderm in 3D culture. <i>Scientific Reports</i> , <b>2019</b> , 9, 996	4.9	11	
62	Kinetic modeling of human induced pluripotent stem cell expansion in suspension culture. <i>Regenerative Therapy</i> , <b>2019</b> , 12, 88-93	3.7	4	
61	Expansion Culture of Human Pluripotent Stem Cells and Production of Cardiomyocytes. <i>Bioengineering</i> , <b>2019</b> , 6,	5.3	17	
60	A novel tool for suspension culture of human induced pluripotent stem cells: Lysophospholipids as a cell aggregation regulator. <i>Regenerative Therapy</i> , <b>2019</b> , 12, 74-82	3.7	2	
59	Effect of inoculum density on human-induced pluripotent stem cell expansion in 3D bioreactors. <i>Cell Proliferation</i> , <b>2019</b> , 52, e12604	7.9	10	
58	Online measurement of oxygen enables continuous noninvasive evaluation of human-induced pluripotent stem cell (hiPSC) culture in a perfused 3D hollow-fiber bioreactor. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 1203-1216	4.4	1	

57	A Chemically Well-Defined, Self-Assembling 3D Substrate for Long-Term Culture of Human Pluripotent Stem Cells <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 1406-1412	4.1	5
56	Scalable Culture Strategies for the Expansion of Patient-Derived Cancer Stem Cell Lines. <i>Stem Cells International</i> , <b>2019</b> , 2019, 8347595	5	2
55	An Orbital Shaking Culture of Mammalian Cells in O-shaped Vessels to Produce Uniform Aggregates. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	1
54	Laminin as a Potent Substrate for Large-Scale Expansion of Human Induced Pluripotent Stem Cells in a Closed Cell Expansion System. <i>Stem Cells International</i> , <b>2019</b> , 2019, 9704945	5	16
53	Human Pluripotent Stem Cells: Applications and Challenges for Regenerative Medicine and Disease Modeling. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2020</b> , 171, 189-224	1.7	О
52	Chemically-Defined, Xeno-Free, Scalable Production of hPSC-Derived Definitive Endoderm Aggregates with Multi-Lineage Differentiation Potential. <i>Cells</i> , <b>2019</b> , 8,	7.9	14
51	Induction of functional islet-like cells from human iPS cells by suspension culture. <i>Regenerative Therapy</i> , <b>2019</b> , 10, 69-76	3.7	27
50	Designing a blueprint for next-generation stem cell bioprocessing development. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 832-843	4.9	2
49	Cell Banking of HEK293T cell line for clinical-grade lentiviral particles manufacturing. <i>Translational Medicine Communications</i> , <b>2020</b> , 5,	4	1
48	Cell-Based Therapy Manufacturing in Stirred Suspension Bioreactor: Thoughts for cGMP Compliance. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 599674	5.8	10
47	Flow, suspension, and mixing dynamics in DASGIP bioreactors: Part 1. AICHE Journal, 2020, 66, e17014	3.6	О
46	Stirred suspension bioreactors maintain nalle pluripotency of human pluripotent stem cells. <i>Communications Biology</i> , <b>2020</b> , 3, 492	6.7	2
45	Selection of human induced pluripotent stem cells lines optimization of cardiomyocytes differentiation in an integrated suspension microcarrier bioreactor. <i>Stem Cell Research and Therapy</i> , <b>2020</b> , 11, 118	8.3	12
44	End-to-End Platform for Human Pluripotent Stem Cell Manufacturing. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 21,	6.3	12
43	Modulation of Wnt and Activin/Nodal supports efficient derivation, cloning and suspension expansion of human pluripotent stem cells. <i>Biomaterials</i> , <b>2020</b> , 249, 120015	15.6	4
42	Hydrodynamic characterization within a spinner flask and a rotary wall vessel for stem cell culture. <i>Biochemical Engineering Journal</i> , <b>2020</b> , 157, 107533	4.2	5
41	Induced pluripotent stem cells can utilize lactate as a metabolic substrate to support proliferation. Biotechnology Progress, <b>2021</b> , 37, e3090	2.8	0
40	Chitosan 3D cell culture system promotes naMe-like features of human induced pluripotent stem cells: A novel tool to sustain pluripotency and facilitate differentiation. <i>Biomaterials</i> , <b>2021</b> , 268, 120575	15.6	15

## (2021-2021)

39	Protection of human induced pluripotent stem cells against shear stress in suspension culture by Bingham plastic fluid. <i>Biotechnology Progress</i> , <b>2021</b> , 37, e3100	2.8	2
38	Non-xenogeneic expansion and definitive endoderm differentiation of human pluripotent stem cells in an automated bioreactor. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 979-991	4.9	1
37	Scalable expansion of human pluripotent stem cells for biomanufacturing cellular therapeutics. <b>2021</b> , 289-308		1
36	Overcoming bioprocess bottlenecks in the large-scale expansion of high-quality hiPSC aggregates in vertical-wheel stirred suspension bioreactors. <i>Stem Cell Research and Therapy</i> , <b>2021</b> , 12, 55	8.3	12
35	Porcine iPSCs. <b>2021</b> , 93-127		
34	Large-scale generation of megakaryocytes from human embryonic stem cells using transgene-free and stepwise defined suspension culture conditions. <i>Cell Proliferation</i> , <b>2021</b> , 54, e13002	7.9	4
33	Production and cryopreservation of definitive endoderm from human pluripotent stem cells under defined and scalable culture conditions. <i>Nature Protocols</i> , <b>2021</b> , 16, 1581-1599	18.8	7
32	Current Developments in the Stable Production of Human Induced Pluripotent Stem Cells. <i>Engineering</i> , <b>2021</b> , 7, 144-152	9.7	6
31	Advances in bioreactors for lung bioengineering: From scalable cell culture to tissue growth monitoring. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2142-2167	4.9	3
30	High density bioprocessing of human pluripotent stem cells by metabolic control and in silico modeling. Stem Cells Translational Medicine, <b>2021</b> , 10, 1063-1080	6.9	18
30		6.9 o.8	18
	modeling. Stem Cells Translational Medicine, 2021, 10, 1063-1080  Numerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. Journal		
29	modeling. Stem Cells Translational Medicine, 2021, 10, 1063-1080  Numerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. Journal of Chemical Engineering of Japan, 2021, 54, 87-92  Lung tissue bioengineering for transplantation and modelling of development, disease and	0.8	2
29	modeling. Stem Cells Translational Medicine, 2021, 10, 1063-1080  Numerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. Journal of Chemical Engineering of Japan, 2021, 54, 87-92  Lung tissue bioengineering for transplantation and modelling of development, disease and regeneration. 2021, 248-272  A digital light processing 3D printed magnetic bioreactor system using silk magnetic bioink.	0.8	2 1 5
29 28 27	Mumerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. <i>Journal of Chemical Engineering of Japan</i> , <b>2021</b> , 54, 87-92  Lung tissue bioengineering for transplantation and modelling of development, disease and regeneration. <b>2021</b> , 248-272  A digital light processing 3D printed magnetic bioreactor system using silk magnetic bioink. <i>Biofabrication</i> , <b>2021</b> , 13,  Uncovering the RNA-binding protein landscape in the pluripotency network of human embryonic	0.8	2 1 5
29 28 27 26	Numerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 87-92  Lung tissue bioengineering for transplantation and modelling of development, disease and regeneration. 2021, 248-272  A digital light processing 3D printed magnetic bioreactor system using silk magnetic bioink. <i>Biofabrication</i> , 2021, 13,  Uncovering the RNA-binding protein landscape in the pluripotency network of human embryonic stem cells. <i>Cell Reports</i> , 2021, 35, 109198	0.8	2 1 5
29 28 27 26 25	Numerical Optimization of Particle Dispersion in Wave Bioreactor for Static Cell Cultivation. <i>Journal of Chemical Engineering of Japan</i> , <b>2021</b> , 54, 87-92  Lung tissue bioengineering for transplantation and modelling of development, disease and regeneration. <b>2021</b> , 248-272  A digital light processing 3D printed magnetic bioreactor system using silk magnetic bioink. <i>Biofabrication</i> , <b>2021</b> , 13,  Uncovering the RNA-binding protein landscape in the pluripotency network of human embryonic stem cells. <i>Cell Reports</i> , <b>2021</b> , 35, 109198  Spatiotemporal Regulation of CellCell Adhesions. <i>Biochemistry</i> ,	0.8	2 1 5

21	Human embryonic stem cell dispersion in electrospun PCL fiber scaffolds by coating with laminin-521 and E-cadherin-Fc. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2018</b> , 106, 1226-1236	3.5	8
20	Optimized serial expansion of human induced pluripotent stem cells using low-density inoculation to generate clinically relevant quantities in vertical-wheel bioreactors. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 1036-1052	6.9	16
19	Stem cells: are we ready for therapy?. Methods in Molecular Biology, 2014, 1213, 3-21	1.4	4
18	Numerical Simulation of Shaking Optimization in a Suspension Culture of iPS Cells. <i>Lecture Notes in Networks and Systems</i> , <b>2019</b> , 283-289	0.5	1
17	Scalable Production of Human Erythrocytes from Induced Pluripotent Stem Cells.		1
16	Numerical Investigation for the Movement of Cell Colonies in Bioreactors: Stirring and Orbital Shaking Tanks. <i>Journal of Chemical Engineering of Japan</i> , <b>2018</b> , 51, 423-430	0.8	13
15	Nutrient regulation by continuous feeding removes limitations on cell yield in the large-scale expansion of Mammalian cell spheroids. <i>PLoS ONE</i> , <b>2013</b> , 8, e76611	3.7	6
14	Physiological Microenvironmental Conditions in Different Scalable Culture Systems for Pluripotent Stem Cell Expansion and Differentiation. <i>Open Biomedical Engineering Journal</i> , <b>2019</b> , 13, 41-54	0.9	3
13	Modified methods for efficiently differentiating human embryonic stem cells into chondrocyte-like cells. <i>Postepy Higieny I Medycyny Doswiadczalnej</i> , <b>2017</b> , 71, 500-509	0.3	3
12	Naturwissenschaftliche Grundlagen im Kontext einer klinischen Anwendung von humanen induzierten pluripotenten Stammzellen. Verffentlichungen Des Instituts Fil Deutsches, Europfisches Und Internationales Medizinrecht, Gesundheitsrecht Und Bioethik Der Universitüen	O	4
11	Critical Analysis of cGMP Large-Scale Expansion Process in Bioreactors of Human Induced Pluripotent Stem Cells in the Framework of Quality by Design. <i>BioDrugs</i> , <b>2021</b> , 35, 693-714	7.9	O
10	Cell Immobilization Strategies for Tissue Engineering: Recent Trends and Future Perspectives. <i>Gels Horizons: From Science To Smart Materials</i> , <b>2021</b> , 85-139		
9	Human Induced Pluripotent Stem Cell as a Disease Modeling and Drug Development Platform-A Cardiac Perspective <i>Cells</i> , <b>2021</b> , 10,	7.9	0
8	Manufacturing Human Pluripotent Stem Cells and Differentiated Progenitors. <i>Cell Engineering</i> , <b>2021</b> , 227-265		
7	Production of homogenous size-controlled human induced pluripotent stem cell aggregates using ring-shaped culture vessel <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2021</b> ,	4.4	1
6	Large-Scale Production of Size-Adjusted ECell Spheroids in a Fully Controlled Stirred-Tank Reactor. <i>Processes</i> , <b>2022</b> , 10, 861	2.9	O
5	Scalable expansion of iPSC and their derivatives across multiple lineages. <i>Reproductive Toxicology</i> , <b>2022</b> ,	3.4	1
4	Large-Scale Production of Wholly-Cellular Bioinks via the Optimization of Human Induced Pluripotent Stem Cell Aggregate Culture in Automated Bioreactors. 2201138		O

## CITATION REPORT

3	Tissue Culture Environment.	1
2	Titanium-Enriched Medium Promotes Environment-Induced Epigenetic Machinery Changes in Human Endothelial Cells. <b>2023</b> , 14, 131	О
т	Development of substrates for the culture of human pluripotent stem cells	0