Emmanuel S Tzanakakis

List of Publications by Year
in descending order

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53 papers	2,195 citations	201674 27 h-index	233421 45 g-index
55 all docs	55 docs citations	55 times ranked	3239 citing authors

#	Article	IF	Citations
1	Nonâ€xenogeneic expansion and definitive endoderm differentiation of human pluripotent stem cells in an automated bioreactor. Biotechnology and Bioengineering, 2021, 118, 979-991.	3.3	3
2	Scalable expansion of human pluripotent stem cells for biomanufacturing cellular therapeutics. , 2021, , 289-308.		1
3	Proteomic Analysis of Exosomes during Cardiogenic Differentiation of Human Pluripotent Stem Cells. Cells, 2021, 10, 2622.	4.1	1
4	Xenogeneic-Free System for Biomanufacturing of Cardiomyocyte Progeny From Human Pluripotent Stem Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 571425.	4.1	5
5	Emerging routes to the generation of functional Î²-cells for diabetes mellitus cell therapy. Nature Reviews Endocrinology, 2020, 16, 506-518.	9.6	85
6	Four Decades After the Discovery of Regenerating Islet-Derived (Reg) Proteins: Current Understanding and Challenges. Frontiers in Cell and Developmental Biology, 2019, 7, 235.	3.7	66
7	Amelioration of Diabetes in a Murine Model upon Transplantation of Pancreatic Î²-Cells with Optogenetic Control of Cyclic Adenosine Monophosphate. ACS Synthetic Biology, 2019, 8, 2248-2255.	3.8	15
8	MicroRNA-7 directly targetsReg1in pancreatic cells. American Journal of Physiology - Cell Physiology, 2019, 317, C366-C374.	4.6	9
9	Who Will Win: Induced Pluripotent Stem Cells Versus Embryonic Stem Cells for Î² Cell Replacement and Diabetes Disease Modeling?. Current Diabetes Reports, 2018, 18, 133.	4.2	10
10	Large-Scale Culture of 3D Aggregates of Human Pluripotent Stem Cells. , 2018, , 1-24.		0
11	Optogenetic regulation of insulin secretion in pancreatic Î²-cells. Scientific Reports, 2017, 7, 9357.	3.3	22
12	Engineering Xeno-Free Microcarriers with Recombinant Vitronectin, Albumin and UV Irradiation for Human Pluripotent Stem Cell Bioprocessing. ACS Biomaterials Science and Engineering, 2017, 3, 1510-1518.	5.2	18
13	Human pluripotent stem cell differentiation to functional pancreatic cells for diabetes therapies: Innovations, challenges and future directions. Journal of Biological Engineering, 2017, 11, 21.	4.7	29
14	Aggregate and Microcarrier Cultures of Human Pluripotent Stem Cells in Stirred-Suspension Systems. Methods in Molecular Biology, 2015, 1502, 35-52.	0.9	9
15	Increased Culture Density Is Linked to Decelerated Proliferation, Prolonged G₁ Phase, and Enhanced Propensity for Differentiation of Self-Renewing Human Pluripotent Stem Cells. Stem Cells and Development, 2015, 24, 892-903.	2.1	21
16	Inverse problem analysis of pluripotent stem cell aggregation dynamics in stirred-suspension cultures. Journal of Biotechnology, 2015, 208, 70-79.	3.8	4
17	Global Developmental Gene Programing Involves a Nuclear Form of Fibroblast Growth Factor Receptor-1 (FGFR1). PLoS ONE, 2015, 10, e0123380.	2.5	45
18	Signaling Pathways and Gene Regulatory Networks in Cardiomyocyte Differentiation. Tissue Engineering - Part B: Reviews, 2015, 21, 377-392.	4.8	30

#	Article	IF	Citations
19	Bioreactors and the Design of the Stem Cell Niche. Pancreatic Islet Biology, 2015, , 107-128.	0.3	0
20	Production of Human Pluripotent Stem Cell Therapeutics under Defined Xeno-free Conditions: Progress and Challenges. Stem Cell Reviews and Reports, 2015, 11, 96-109.	5.6	33
21	Facile Engineering of Xeno-Free Microcarriers for the Scalable Cultivation of Human Pluripotent Stem Cells in Stirred Suspension. Tissue Engineering - Part A, 2014, 20, 131128071850006.	3.1	35
22	Enhanced Differentiation of Stem Cell Derived Cardiac Myocytes by Electronic Expression of IK1 Reveals an Atrial-Specific Kv1.5-Like Current. Biophysical Journal, 2014, 106, 631a.	0.5	1
23	Biodegradable cationic polymeric nanocapsules for overcoming multidrug resistance and enabling drugâ€“gene co-delivery to cancer cells. Nanoscale, 2014, 6, 1567-1572.	5.6	101
24	Oxygen Transport and Stem Cell Aggregation in Stirred-Suspension Bioreactor Cultures. PLoS ONE, 2014, 9, e102486.	2.5	65
25	Stem cell modeling: from gene networks to cell populations. Current Opinion in Chemical Engineering, 2013, 2, 17-25.	7.8	11
26	Deconstructing stem cell population heterogeneity: Single-cell analysis and modeling approaches. Biotechnology Advances, 2013, 31, 1047-1062.	11.7	90
27	Epitope-Guided Engineering of Monobody Binders for in Vivo Inhibition of Erk-2 Signaling. ACS Chemical Biology, 2013, 8, 608-616.	3.4	14
28	Schizophrenia: A neurodevelopmental disorder â€" Integrative genomic hypothesis and therapeutic implications from a transgenic mouse model. Schizophrenia Research, 2013, 143, 367-376.	2.0	45
29	Guest editorial. Biotechnology Advances, 2013, 31, 993.	11.7	0
30	Electronic â€œexpressionâ€•of the inward rectifier in cardiocytes derived from human-induced pluripotent stem cells. Heart Rhythm, 2013, 10, 1903-1910.	0.7	118
31	Distinct Allelic Patterns of Nanog Expression Impart Embryonic Stem Cell Population Heterogeneity. PLoS Computational Biology, 2013, 9, e1003140.	3.2	8
32	Epitope guided engineering of monobody binders for in vivo inhibition of Erkâ€2 signaling. FASEB Journal, 2013, 27, 1042.2.	0.5	0
33	Regenerating proteins and their expression, regulation, and signaling. Biomolecular Concepts, 2012, 3, 57-70.	2.2	86
34	Contribution of Stochastic Partitioning at Human Embryonic Stem Cell Division to NANOG Heterogeneity. PLoS ONE, 2012, 7, e50715.	2.5	38
35	A novel nuclear FGF Receptorâ€1 partnership with retinoid and Nur receptors during developmental gene programming of embryonic stem cells. Journal of Cellular Biochemistry, 2012, 113, 2920-2936.	2.6	28
36	Scaling down the size and increasing the throughput of glycosyltransferase assays: Activity changes on stem cell differentiation. Analytical Biochemistry, 2012, 425, 135-144.	2.4	11

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37	Pseudoislets in stirred-suspension culture exhibit enhanced cell survival, propagation and insulin secretion. Journal of Biotechnology, 2011, 151, 278-286.	3.8	30
38	A Common Integrative Nuclear Signaling Module for Stem Cell Development. , 2011, , 87-132.		9
39	Stem Cell Bioprocessing for Regenerative Medicine. , 2011, , 197-229.		1
40	Cardiac Cell Generation from Encapsulated Embryonic Stem Cells in Static and Scalable Culture Systems. Cell Transplantation, 2010, 19, 1397-1412.	2.5	95
41	Expression of Reg Family Proteins in Embryonic Stem Cells and Its Modulation by Wnt/Î²-Catenin Signaling. Stem Cells and Development, 2010, 19, 1307-1319.	2.1	25
42	Scalable Stirred-Suspension Bioreactor Culture of Human Pluripotent Stem Cells. Tissue Engineering - Part A, 2010, 16, 405-421.	3.1	226
43	Expansion and Differentiation of Human Embryonic Stem Cells to Endoderm Progeny in a Microcarrier Stirred-Suspension Culture. Tissue Engineering - Part A, 2009, 15, 2051-2063.	3.1	174
44	Propagation of embryonic stem cells in stirred suspension without serum. Biotechnology Progress, 2008, 24, 1342-1352.	2.6	46
45	Stem Cells for Heart Cell Therapies. Tissue Engineering - Part B: Reviews, 2008, 14, 393-406.	4.8	67
46	Stem/Progenitor Cell Sources of Insulin-Producing Cells for the Treatment of Diabetes. Tissue Engineering, 2007, 13, 1399-1412.	4.6	76
47	Standardized biosynthesis of flavan-3-ols with effects on pancreatic beta-cell insulin secretion. Applied Microbiology and Biotechnology, 2007, 77, 797-807.	3.6	54
48	Combined activities of hedgehog signaling inhibitors regulate pancreas development. Development (Cambridge), 2003, 130, 4871-4879.	2.5	105
49	Long-term enhancement of cytochrome P450 2B1/2 expression in rat hepatocyte spheroids through adenovirus-mediated gene transfer. Cell Biology and Toxicology, 2002, 18, 13-27.	5.3	11
50	The role of actin filaments and microtubules in hepatocyte spheroid self-assembly. Cytoskeleton, 2001, 48, 175-189.	4.4	99
51	Probing Enhanced Cytochrome P450 2B1/2 Activity in Rat Hepatocyte Spheroids through Confocal Laser Scanning Microscopy. Cell Transplantation, 2001, 10, 329-342.	2.5	28
52	Extracorporeal Tissue Engineered Liver-Assist Devices. Annual Review of Biomedical Engineering, 2000, 2, 607-632.	12.3	71
53	Kinetics of xanthan gum production from whey by constructed strains ofXanthomonas campestris in batch fermentations. Chemical Engineering and Technology, 1997, 20, 354-360.	1.5	20