

# Derrick E Rancourt

## List of Publications by Citations

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71  
papers

2,073  
citations

24  
h-index

44  
g-index

73  
ext. papers

2,256  
ext. citations

5.4  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
71	DNA-dependent protein kinase acts upstream of p53 in response to DNA damage. <i>Nature</i> , <b>1998</b> , 394, 700-4	50.4	265
70	Induction of chondro-, osteo- and adipogenesis in embryonic stem cells by bone morphogenetic protein-2: effect of cofactors on differentiating lineages. <i>BMC Developmental Biology</i> , <b>2005</b> , 5, 1	3.1	164
69	Expansion of undifferentiated murine embryonic stem cells as aggregates in suspension culture bioreactors. <i>Tissue Engineering</i> , <b>2006</b> , 12, 3233-45		136
68	Large-scale expansion of pluripotent human embryonic stem cells in stirred-suspension bioreactors. <i>Tissue Engineering - Part C: Methods</i> , <b>2010</b> , 16, 573-82	2.9	130
67	ROCK inhibitor improves survival of cryopreserved serum/feeder-free single human embryonic stem cells. <i>Human Reproduction</i> , <b>2009</b> , 24, 580-9	5.7	127
66	Embryonic stem cells remain highly pluripotent following long term expansion as aggregates in suspension bioreactors. <i>Journal of Biotechnology</i> , <b>2007</b> , 129, 421-32	3.7	114
65	The ROCK inhibitor Y-27632 enhances the survival rate of human embryonic stem cells following cryopreservation. <i>Stem Cells and Development</i> , <b>2008</b> , 17, 1079-85	4.4	105
64	Expansion and long-term maintenance of induced pluripotent stem cells in stirred suspension bioreactors. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2012</b> , 6, 462-72	4.4	53
63	Human embryonic stem cells: caught between a ROCK inhibitor and a hard place. <i>BioEssays</i> , <b>2009</b> , 31, 336-43	4.1	53
62	Reduced differentiation efficiency of murine embryonic stem cells in stirred suspension bioreactors. <i>Stem Cells and Development</i> , <b>2010</b> , 19, 989-98	4.4	48
61	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
60	Shear stress influences the pluripotency of murine embryonic stem cells in stirred suspension bioreactors. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2014</b> , 8, 268-78	4.4	45
59	Synergistic effect of medium, matrix, and exogenous factors on the adhesion and growth of human pluripotent stem cells under defined, xeno-free conditions. <i>Stem Cells and Development</i> , <b>2012</b> , 21, 2036-48	4.4	41
58	Extracellular matrix isolated from foreskin fibroblasts supports long-term xeno-free human embryonic stem cell culture. <i>Stem Cells and Development</i> , <b>2010</b> , 19, 547-56	4.4	39
57	Embryonic hatching enzyme strypsin/ISP1 is expressed with ISP2 in endometrial glands during implantation. <i>Molecular Reproduction and Development</i> , <b>2002</b> , 62, 328-34	2.6	39
56	Derivation of iPSCs in stirred suspension bioreactors. <i>Nature Methods</i> , <b>2012</b> , 9, 465-6	21.6	38
55	A novel method for generating xeno-free human feeder cells for human embryonic stem cell culture. <i>Stem Cells and Development</i> , <b>2008</b> , 17, 413-22	4.4	37

54	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 1978	4.9	35
53	Implantation Serine Proteinases heterodimerize and are critical in hatching and implantation. <i>BMC Developmental Biology</i> , <b>2006</b> , 6, 61	3.1	35
52	Comparing three novel endpoints for developmental osteotoxicity in the embryonic stem cell test. <i>Toxicology and Applied Pharmacology</i> , <b>2010</b> , 247, 91-7	4.6	34
51	Efficient suspension bioreactor expansion of murine embryonic stem cells on microcarriers in serum-free medium. <i>Biotechnology Progress</i> , <b>2011</b> , 27, 811-23	2.8	33
50	NO-βcatenin crosstalk modulates primitive streak formation prior to embryonic stem cell osteogenic differentiation. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 5564-77	5.3	31
49	Identification of five developmental processes during chondrogenic differentiation of embryonic stem cells. <i>PLoS ONE</i> , <b>2010</b> , 5, e10998	3.7	30
48	Murine subtilisin-like proteinase SPC6 is expressed during embryonic implantation, somitogenesis, and skeletal formation. <i>Genesis</i> , <b>1997</b> , 21, 75-81		26
47	Impact of stirred suspension bioreactor culture on the differentiation of murine embryonic stem cells into cardiomyocytes. <i>BMC Cell Biology</i> , <b>2011</b> , 12, 53		22
46	Concise Review: Molecular Cytogenetics and Quality Control: Clinical Guardians for Pluripotent Stem Cells. <i>Stem Cells Translational Medicine</i> , <b>2018</b> , 7, 867-875	6.9	22
45	Optimizing Human Induced Pluripotent Stem Cell Expansion in Stirred-Suspension Culture. <i>Stem Cells and Development</i> , <b>2017</b> , 26, 1804-1817	4.4	21
44	Uterine secretion of ISP1 & 2 tryptases is regulated by progesterone and estrogen during pregnancy and the endometrial cycle. <i>Molecular Reproduction and Development</i> , <b>2004</b> , 69, 252-9	2.6	21
43	Returning to the stem state: epigenetics of recapitulating pre-differentiation chromatin structure. <i>BioEssays</i> , <b>2010</b> , 32, 791-9	4.1	20
42	Serum-free scaled up expansion and differentiation of murine embryonic stem cells to osteoblasts in suspension bioreactors. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 106, 829-40	4.9	17
41	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
40	Developing a Customized Perfusion Bioreactor Prototype with Controlled Positional Variability in Oxygen Partial Pressure for Bone and Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , <b>2017</b> , 23, 286-297	2.9	14
39	Microenvironment modulates osteogenic cell lineage commitment in differentiated embryonic stem cells. <i>PLoS ONE</i> , <b>2010</b> , 5, e9663	3.7	14
38	Murine implantation serine proteinases 1 and 2: structure, function and evolution. <i>Gene</i> , <b>2005</b> , 364, 30-63.8		14
37	Going (Reo)Viral: Factors Promoting Successful Reoviral Oncolytic Infection. <i>Viruses</i> , <b>2018</b> , 10,	6.2	13

36	Using computational fluid dynamics (CFD) modeling to understand murine embryonic stem cell aggregate size and pluripotency distributions in stirred suspension bioreactors. <i>Journal of Biotechnology</i> , <b>2019</b> , 304, 16-27	3.7	13
35	Inhibition of Rho kinase regulates specification of early differentiation events in P19 embryonal carcinoma stem cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e26484	3.7	13
34	Reversible Mitochondrial Fragmentation in iPSC-Derived Cardiomyocytes From Children With DCMA, a Mitochondrial Cardiomyopathy. <i>Canadian Journal of Cardiology</i> , <b>2020</b> , 36, 554-563	3.8	13
33	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
32	Post-Passage rock inhibition induces cytoskeletal aberrations and apoptosis in Human embryonic stem cells. <i>Stem Cell Research</i> , <b>2019</b> , 41, 101641	1.6	11
31	Substrate specificity determination of mouse implantation serine proteinase and human kallikrein-related peptidase 6 by phage display. <i>Biological Chemistry</i> , <b>2008</b> , 389, 1097-105	4.5	11
30	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
29	Would the real human embryonic stem cell please stand up?. <i>BioEssays</i> , <b>2013</b> , 35, 632-8	4.1	8
28	Origin of the murine implantation serine proteinase subfamily. <i>Molecular Reproduction and Development</i> , <b>2004</b> , 69, 126-36	2.6	8
27	Germ cell specific promoter drives ectopic transgene expression during embryogenesis. <i>Molecular Reproduction and Development</i> , <b>2001</b> , 59, 25-32	2.6	8
26	Embryonic stem cell gene targeting using bacteriophage lambda vectors generated by phage-plasmid recombination. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 988-93	20.1	8
25	Fluid Flow Modulation of Murine Embryonic Stem Cell Pluripotency Gene Expression in the Absence of LIF. <i>Cellular and Molecular Bioengineering</i> , <b>2013</b> , 6, 335-345	3.9	6
24	Implantation serine proteinase 1 exhibits mixed substrate specificity that silences signaling via proteinase-activated receptors. <i>PLoS ONE</i> , <b>2011</b> , 6, e27888	3.7	6
23	Expansion of Human Induced Pluripotent Stem Cells in Stirred Suspension Bioreactors. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1502, 53-61	1.4	5
22	Retro-recombination screening of a mouse embryonic stem cell genomic library. <i>Nucleic Acids Research</i> , <b>2000</b> , 28, E41	20.1	5
21	Transgenic Expression of Rescues Vision and Retinal Morphology in a Mouse Model of Congenital Stationary Night Blindness 2A (CSNB2A). <i>Translational Vision Science and Technology</i> , <b>2020</b> , 9, 19	3.3	4
20	An Integrated Approach toward the Biomanufacturing of Engineered Cell Therapy Products in a Stirred-Suspension Bioreactor. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2018</b> , 9, 376-389	6.4	4
19	Suspension bioreactor expansion of undifferentiated human embryonic stem cells. <i>Methods in Molecular Biology</i> , <b>2012</b> , 873, 227-35	1.4	3

18	Characterization of secretory leukocyte protease inhibitor as an inhibitor of implantation serine proteinases. <i>Molecular Reproduction and Development</i> , <b>2008</b> , 75, 1136-42	2.6	3
17	Fluid shear stress promotes embryonic stem cell pluripotency via interplay between Eatenin and vinculin in bioreactor culture. <i>Stem Cells</i> , <b>2021</b> , 39, 1166-1177	5.8	3
16	Enhanced Osteogenic Differentiation of Pluripotent Stem Cells via Esecretase Inhibition. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
15	Use of Stirred Suspension Bioreactors for Male Germ Cell Enrichment. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1502, 111-8	1.4	3
14	An Effective and Reliable Xeno-free Cryopreservation Protocol for Single Human Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1516, 47-56	1.4	3
13	Computational fluid dynamic characterization of vertical-wheel bioreactors used for effective scale-up of human induced pluripotent stem cell aggregate culture. <i>Canadian Journal of Chemical Engineering</i> , <b>2021</b> , 99, 2536	2.3	3
12	Large-scale expansion of feeder-free mouse embryonic stem cells serially passaged in stirred suspension bioreactors at low inoculation densities directly from cryopreservation. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 1316-1328	4.9	2
11	Structural variation in a novel zinc finger protein and investigation of its role in Hirschsprung disease. <i>Gene Function &amp; Disease</i> , <b>2002</b> , 3, 69-76		2
10	Stirred suspension bioreactors maintain naïve pluripotency of human pluripotent stem cells. <i>Communications Biology</i> , <b>2020</b> , 3, 492	6.7	2
9	Cytokine Directed Chondroblast Trans-Differentiation: Inhibition Facilitates Direct Reprogramming of Fibroblasts to Chondroblasts. <i>Cells</i> , <b>2020</b> , 9,	7.9	1
8	Implantation serine proteinase 2 is a monomeric enzyme with mixed serine proteolytic activity and can silence signalling via proteinase activated receptors. <i>Biochemistry and Cell Biology</i> , <b>2013</b> , 91, 487-97	3.6	1
7	Metabolic status of pluripotent cells and exploitation for growth in stirred suspension bioreactors. <i>Biotechnology and Genetic Engineering Reviews</i> , <b>2013</b> , 29, 24-30	4.1	1
6	Recapitulating bone development events in a customised bioreactor through interplay of oxygen tension, medium pH, and systematic differentiation approaches. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 1672-1684	4.4	
5	Image Analysis Method for Evaluating Heterogeneous Growth and Differentiation of Embryonic Stem Cell Cultures. <i>ACS Symposium Series</i> , <b>2013</b> , 165-181	0.4	
4	Strypsin 1 <b>2013</b> , 2740-2747		
3	Stem Cell Epigenetics and Human Disease <b>2012</b> , 481-501		
2	Bioreactor Expansion of Pluripotent Stem Cells <b>2013</b> , 129-138		
1	Overview of the Therapeutic Applications of Stem Cell-Derived Exosomes: A Research and Commercial Perspective. <i>Current Protocols</i> , <b>2021</b> , 1, e230		

