

# Peter W Zandstra

## List of Publications by Year in descending order

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Version: 2024-02-01

132  
papers

14,909  
citations

22099

59  
h-index

19136

118  
g-index

146  
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146  
docs citations

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times ranked

19963  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Growth Factors, Matrices, and Forces Combine and Control Stem Cells. <i>Science</i> , 2009, 324, 1673-1677.   | 6.0  | 2,351     |
| 2  | A 17-gene stemness score for rapid determination of risk in acute leukaemia. <i>Nature</i> , 2016, 540, 433-437.  | 13.7 | 617       |
| 3  | TAZ controls Smad nucleocytoplasmic shuttling and regulates human embryonic stem-cell self-renewal. <i>Nature Cell Biology</i> , 2008, 10, 837-848.   | 4.6  | 576       |
| 4  | Pyrimidoindole derivatives are agonists of human hematopoietic stem cell self-renewal. <i>Science</i> , 2014, 345, 1509-1512.   | 6.0  | 470       |
| 5  | Control of Human Embryonic Stem Cell Colony and Aggregate Size Heterogeneity Influences Differentiation Trajectories. <i>Stem Cells</i> , 2008, 26, 2300-2310.  | 1.4  | 419       |
| 6  | Reproducible, Ultra High-Throughput Formation of Multicellular Organization from Single Cell Suspension-Derived Human Embryonic Stem Cell Aggregates. <i>PLoS ONE</i> , 2008, 3, e1565.                 | 1.1  | 367       |
| 7  | Niche-mediated control of human embryonic stem cell self-renewal and differentiation. <i>EMBO Journal</i> , 2007, 26, 4744-4755.  | 3.5  | 365       |
| 8  | A Mass Spectrometric-Derived Cell Surface Protein Atlas. <i>PLoS ONE</i> , 2015, 10, e0121314.  | 1.1  | 356       |
| 9  | A Microfabricated Platform to Measure and Manipulate the Mechanics of Engineered Cardiac Microtissues. <i>Tissue Engineering - Part A</i> , 2012, 18, 910-919.  | 1.6  | 355       |
| 10 | An Alternative Splicing Switch Regulates Embryonic Stem Cell Pluripotency and Reprogramming. <i>Cell</i> , 2011, 147, 132-146.  | 13.5 | 325       |
| 11 | Efficiency of embryoid body formation and hematopoietic development from embryonic stem cells in different culture systems. <i>Biotechnology and Bioengineering</i> , 2002, 78, 442-453.                | 1.7  | 321       |
| 12 | The Systematic Production of Cells for Cell Therapies. <i>Cell Stem Cell</i> , 2008, 3, 369-381.  | 5.2  | 286       |
| 13 | Controlled, Scalable Embryonic Stem Cell Differentiation Culture. <i>Stem Cells</i> , 2004, 22, 275-282.  | 1.4  | 272       |
| 14 | Scalable Production of Embryonic Stem Cell-Derived Cardiomyocytes. <i>Tissue Engineering</i> , 2003, 9, 767-778.  | 4.9  | 271       |
| 15 | A Myc enhancer cluster regulates normal and leukaemic haematopoietic stem cell hierarchies. <i>Nature</i> , 2018, 553, 515-520.   | 13.7 | 256       |
| 16 | Design and formulation of functional pluripotent stem cell-derived cardiac microtissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4698-707. | 3.3  | 252       |
| 17 | Rapid Expansion of Human Hematopoietic Stem Cells by Automated Control of Inhibitory Feedback Signaling. <i>Cell Stem Cell</i> , 2012, 10, 218-229.   | 5.2  | 224       |
| 18 | Shear-Controlled Single-Step Mouse Embryonic Stem Cell Expansion and Embryoid Body-Based Differentiation. <i>Stem Cells</i> , 2005, 23, 1333-1342.  | 1.4  | 217       |

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|----|--|------|-----------|
| 19 | miR-126 Regulates Distinct Self-Renewal Outcomes in Normal and Malignant Hematopoietic Stem Cells. <i>Cancer Cell</i> , 2016, 29, 214-228.   | 7.7  | 216       |
| 20 | Quality cell therapy manufacturing by design. <i>Nature Biotechnology</i> , 2016, 34, 393-400.   | 9.4  | 214       |
| 21 | Generation of human embryonic stem cell-derived mesoderm and cardiac cells using size-specified aggregates in an oxygen-controlled bioreactor. <i>Biotechnology and Bioengineering</i> , 2009, 102, 493-507.             | 1.7  | 211       |
| 22 | Human Embryonic Stem Cell-Derived Cardiomyocytes Regenerate the Infarcted Pig Heart but Induce Ventricular Tachyarrhythmias. <i>Stem Cell Reports</i> , 2019, 12, 967-981.   | 2.3  | 207       |
| 23 | Functional immobilization of signaling proteins enables control of stem cell fate. <i>Nature Methods</i> , 2008, 5, 645-650.   | 9.0  | 190       |
| 24 | Genome-wide characterization of the routes to pluripotency. <i>Nature</i> , 2014, 516, 198-206.  | 13.7 | 187       |
| 25 | High-throughput combinatorial cell co-culture using microfluidics. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 107-113.   | 0.6  | 183       |
| 26 | High-throughput generation of hydrogel microbeads with varying elasticity for cell encapsulation. <i>Biomaterials</i> , 2011, 32, 1477-1483.   | 5.7  | 183       |
| 27 | Convenience versus Biological Significance: Are PMA-Differentiated THP-1 Cells a Reliable Substitute for Blood-Derived Macrophages When Studying in Vitro Polarization?. <i>Frontiers in Pharmacology</i> , 2018, 9, 71. | 1.6  | 180       |
| 28 | Signaling Networks among Stem Cell Precursors, Transit-Amplifying Progenitors, and their Niche in Developing Hair Follicles. <i>Cell Reports</i> , 2016, 14, 3001-3018.  | 2.9  | 160       |
| 29 | Enabling stem cell therapies through synthetic stem cell "niche" engineering. <i>Journal of Clinical Investigation</i> , 2010, 120, 60-70.   | 3.9  | 157       |
| 30 | Incorporation of biomaterials in multicellular aggregates modulates pluripotent stem cell differentiation. <i>Biomaterials</i> , 2011, 32, 48-56.  | 5.7  | 154       |
| 31 | Development of a perfusion fed bioreactor for embryonic stem cell-derived cardiomyocyte generation: Oxygen-mediated enhancement of cardiomyocyte output. <i>Biotechnology and Bioengineering</i> , 2005, 90, 452-461.    | 1.7  | 146       |
| 32 | Hematopoietic stem cell transplantation using single UM171-expanded cord blood: a single-arm, phase 1-2 safety and feasibility study. <i>Lancet Haematology</i> , 2020, 7, e134-e145.                                    | 2.2  | 138       |
| 33 | A stepwise model of Reaction-Diffusion and Positional-Information governs self-organized human peri-gastrulation-like patterning. <i>Development (Cambridge)</i> , 2017, 144, 4298-4312.                                 | 1.2  | 124       |
| 34 | Dynamic interaction networks in a hierarchically organized tissue. <i>Molecular Systems Biology</i> , 2010, 6, 417.  | 3.2  | 122       |
| 35 | Stem Cell Bioengineering. <i>Annual Review of Biomedical Engineering</i> , 2001, 3, 275-305.   | 5.7  | 121       |
| 36 | PERT: A Method for Expression Deconvolution of Human Blood Samples from Varied Microenvironmental and Developmental Conditions. <i>PLoS Computational Biology</i> , 2012, 8, e1002838.                                   | 1.5  | 111       |

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|----|--|-----|-----------|
| 37 | Cell-cell interaction networks regulate blood stem and progenitor cell fate. <i>Molecular Systems Biology</i> , 2009, 5, 293.  | 3.2 | 105       |
| 38 | Multivariate proteomic analysis of murine embryonic stem cell self-renewal versus differentiation signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2900-2905.                            | 3.3 | 103       |
| 39 | LIF signaling in stem cells and development. <i>Development (Cambridge)</i> , 2015, 142, 2230-2236.  | 1.2 | 103       |
| 40 | Expansion of Hematopoietic Progenitor Cell Populations in Stirred Suspension Bioreactors of Normal Human Bone Marrow Cells. <i>Nature Biotechnology</i> , 1994, 12, 909-914.   | 9.4 | 102       |
| 41 | Progenitor T-cell differentiation from hematopoietic stem cells using Delta-like-4 and VCAM-1. <i>Nature Methods</i> , 2017, 14, 531-538.  | 9.0 | 102       |
| 42 | A ligand-receptor signaling threshold model of stem cell differentiation control: a biologically conserved mechanism applicable to hematopoiesis. <i>Blood</i> , 2000, 96, 1215-1222.  | 0.6 | 99        |
| 43 | Prediction and Testing of Novel Transcriptional Networks Regulating Embryonic Stem Cell Self-Renewal and Commitment. <i>Cell Stem Cell</i> , 2007, 1, 71-86.   | 5.2 | 98        |
| 44 | Derivation, expansion and differentiation of induced pluripotent stem cells in continuous suspension cultures. <i>Nature Methods</i> , 2012, 9, 509-516.   | 9.0 | 98        |
| 45 | Engineering a humanized bone organ model in mice to study bone metastases. <i>Nature Protocols</i> , 2017, 12, 639-663.  | 5.5 | 91        |
| 46 | Ligand/Receptor Signaling Threshold (LIST) Model Accounts for gp130-Mediated Embryonic Stem Cell Self-Renewal Responses to LIF and HIL-6. <i>Stem Cells</i> , 2002, 20, 119-138.   | 1.4 | 85        |
| 47 | Interrogating functional integration between injected pluripotent stem cell-derived cells and surrogate cardiac tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3329-3334.                 | 3.3 | 83        |
| 48 | Geometric Control of Cardiomyogenic Induction in Human Pluripotent Stem Cells. <i>Tissue Engineering - Part A</i> , 2011, 17, 1901-1909.   | 1.6 | 79        |
| 49 | CD24 tracks divergent pluripotent states in mouse and human cells. <i>Nature Communications</i> , 2015, 6, 7329.   | 5.8 | 76        |
| 50 | Stem cell bioengineering: building from stem cell biology. <i>Nature Reviews Genetics</i> , 2018, 19, 595-614.   | 7.7 | 76        |
| 51 | Cell competition during reprogramming gives rise to dominant clones. <i>Science</i> , 2019, 364, .   | 6.0 | 76        |
| 52 | Sustained In Vitro Expansion of Bone Progenitors Is Cell Density Dependent. <i>Stem Cells</i> , 2004, 22, 39-50.   | 1.4 | 75        |
| 53 | Seeding Bioreactor-Produced Embryonic Stem Cell-Derived Cardiomyocytes on Different Porous, Degradable, Polyurethane Scaffolds Reveals the Effect of Scaffold Architecture on Cell Morphology. <i>Tissue Engineering - Part A</i> , 2008, 14, 369-378. | 1.6 | 69        |
| 54 | The microwell-mesh: A novel device and protocol for the high throughput manufacturing of cartilage microtissues. <i>Biomaterials</i> , 2015, 62, 1-12.   | 5.7 | 69        |

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|----|---|-----|-----------|
| 55 | A 96-well culture platform enables longitudinal analyses of engineered human skeletal muscle microtissue strength. <i>Scientific Reports</i> , 2020, 10, 6918.  | 1.6 | 68        |
| 56 | The use of vascular endothelial growth factor functionalized agarose to guide pluripotent stem cell aggregates toward blood progenitor cells. <i>Biomaterials</i> , 2010, 31, 8262-8270.                          | 5.7 | 65        |
| 57 | LIF-mediated control of embryonic stem cell self-renewal emerges due to an autoregulatory loop. <i>FASEB Journal</i> , 2007, 21, 2020-2032.   | 0.2 | 63        |
| 58 | Predictive microfluidic control of regulatory ligand trajectories in individual pluripotent cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3264-3269. | 3.3 | 63        |
| 59 | Manipulation of Signaling Thresholds in Engineered Stem Cell Niches Identifies Design Criteria for Pluripotent Stem Cell Screens. <i>PLoS ONE</i> , 2009, 4, e6438.   | 1.1 | 63        |
| 60 | Dynamic changes in cellular and microenvironmental composition can be controlled to elicit in vitro human hematopoietic stem cell expansion. <i>Experimental Hematology</i> , 2005, 33, 1229-1239.                | 0.2 | 59        |
| 61 | High-throughput fingerprinting of human pluripotent stem cell fate responses and lineage bias. <i>Nature Methods</i> , 2013, 10, 1225-1231.   | 9.0 | 59        |
| 62 | Spatial Organization of Embryonic Stem Cell Responsiveness to Autocrine Gp130 Ligands Reveals an Autoregulatory Stem Cell Niche. <i>Stem Cells</i> , 2006, 24, 2538-2548.   | 1.4 | 58        |
| 63 | Intercellular network structure and regulatory motifs in the human hematopoietic system. <i>Molecular Systems Biology</i> , 2014, 10, 741.  | 3.2 | 57        |
| 64 | Sensitivity Analysis of Intracellular Signaling Pathway Kinetics Predicts Targets for Stem Cell Fate Control. <i>PLoS Computational Biology</i> , 2007, 3, e130.  | 1.5 | 55        |
| 65 | Rational bioprocess design for human pluripotent stem cell expansion and endoderm differentiation based on cellular dynamics. <i>Biotechnology and Bioengineering</i> , 2012, 109, 853-866.                       | 1.7 | 51        |
| 66 | Clinically Relevant Expansion of Hematopoietic Stem Cells with Conserved Function in a Single-Use, Closed-System Bioprocess. <i>Biology of Blood and Marrow Transplantation</i> , 2006, 12, 1020-1030.            | 2.0 | 50        |
| 67 | Immobilization of growth factors on solid supports for the modulation of stem cell fate. <i>Nature Protocols</i> , 2010, 5, 1042-1050.  | 5.5 | 50        |
| 68 | Modeling signaling-dependent pluripotency with Boolean logic to predict cell fate transitions. <i>Molecular Systems Biology</i> , 2018, 14, e7952.  | 3.2 | 49        |
| 69 | Towards predictive models of stem cell fate. <i>Cytotechnology</i> , 2003, 41, 75-92.   | 0.7 | 48        |
| 70 | Supplementation-dependent differences in the rates of embryonic stem cell self-renewal, differentiation, and apoptosis. <i>Biotechnology and Bioengineering</i> , 2003, 84, 505-517.                              | 1.7 | 45        |
| 71 | Quantitative screening of embryonic stem cell differentiation: Endoderm formation as a model. <i>Biotechnology and Bioengineering</i> , 2004, 88, 287-298.  | 1.7 | 43        |
| 72 | Systematic engineering of 3D pluripotent stem cell niches to guide blood development. <i>Biomaterials</i> , 2012, 33, 1271-1280.  | 5.7 | 42        |

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|----|---|-----|-----------|
| 73 | High density continuous production of murine pluripotent cells in an acoustic perfused bioreactor at different oxygen concentrations. <i>Biotechnology and Bioengineering</i> , 2013, 110, 648-655.   | 1.7 | 40        |
| 74 | Proneurogenic Ligands Defined by Modeling Developing Cortex Growth Factor Communication Networks. <i>Neuron</i> , 2016, 91, 988-1004.   | 3.8 | 39        |
| 75 | Identifying Extrinsic versus Intrinsic Drivers of Variation in Cell Behavior in Human iPSC Lines from Healthy Donors. <i>Cell Reports</i> , 2019, 26, 2078-2087.e3.   | 2.9 | 36        |
| 76 | Understanding cellular networks to improve hematopoietic stem cell expansion cultures. <i>Current Opinion in Biotechnology</i> , 2006, 17, 538-547.   | 3.3 | 34        |
| 77 | High-throughput micropatterning platform reveals Nodal-dependent bisection of peri-gastrulation-associated versus preneurulation-associated fate patterning. <i>PLoS Biology</i> , 2019, 17, e3000081.  | 2.6 | 34        |
| 78 | Advances in hematopoietic stem cell culture. <i>Current Opinion in Biotechnology</i> , 1998, 9, 146-151.  | 3.3 | 33        |
| 79 | Soluble Flt-1 Regulates Flk-1 Activation to Control Hematopoietic and Endothelial Development in an Oxygen-Responsive Manner. <i>Stem Cells</i> , 2008, 26, 2832-2842.  | 1.4 | 33        |
| 80 | Achieving Efficient Manufacturing and Quality Assurance through Synthetic Cell Therapy Design. <i>Cell Stem Cell</i> , 2017, 20, 13-17.   | 5.2 | 33        |
| 81 | FZD4 Marks Lateral Plate Mesoderm and Signals with NORRIN to Increase Cardiomyocyte Induction from Pluripotent Stem Cell-Derived Cardiac Progenitors. <i>Stem Cell Reports</i> , 2018, 10, 87-100.  | 2.3 | 32        |
| 82 | Functional arrays of human pluripotent stem cell-derived cardiac microtissues. <i>Scientific Reports</i> , 2020, 10, 6919.  | 1.6 | 32        |
| 83 | Tissue engineering 2.0: guiding self-organization during pluripotent stem cell differentiation. <i>Current Opinion in Biotechnology</i> , 2012, 23, 810-819.  | 3.3 | 31        |
| 84 | Distinguishing autocrine and paracrine signals in hematopoietic stem cell culture using a biofunctional microcavity platform. <i>Scientific Reports</i> , 2016, 6, 31951.   | 1.6 | 29        |
| 85 | Modulating cell state to enhance suspension expansion of human pluripotent stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6369-6374.   | 3.3 | 29        |
| 86 | Scalable Production of Embryonic Stem Cell-Derived Cells. , 2005, 290, 353-364.   |     | 28        |
| 87 | Transforming the Promise of Pluripotent Stem Cell-Derived Cardiomyocytes to a Therapy: Challenges and Solutions for Clinical Trials. <i>Canadian Journal of Cardiology</i> , 2014, 30, 1335-1349.   | 0.8 | 27        |
| 88 | Synthetic gene circuits and cellular decision-making in human pluripotent stem cells. <i>Current Opinion in Systems Biology</i> , 2017, 5, 93-103.  | 1.3 | 25        |
| 89 | Analysis of the temporal and concentration-dependent effects of BMP-4, VEGF, and TPO on development of embryonic stem cell-derived mesoderm and blood progenitors in a defined, serum-free media. <i>Experimental Hematology</i> , 2008, 36, 1186-1198. | 0.2 | 24        |
| 90 | Blood stem cell fate regulation by Delta-1-mediated rewiring of IL-6 paracrine signaling. <i>Blood</i> , 2014, 123, 650-658.  | 0.6 | 23        |

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|-----|--|-----|-----------|
| 91  | Enhanced human hematopoietic stem and progenitor cell engraftment by blocking donor T cell-mediated TNF signaling. <i>Science Translational Medicine</i> , 2017, 9, .  | 5.8 | 23        |
| 92  | Engineered heart tissue enables study of residual undifferentiated embryonic stem cell activity in a cardiac environment. <i>Biotechnology and Bioengineering</i> , 2011, 108, 704-719.  | 1.7 | 22        |
| 93  | Chemically controlled aggregation of pluripotent stem cells. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2061-2066.   | 1.7 | 22        |
| 94  | Engineering the haemogenic niche mitigates endogenous inhibitory signals and controls pluripotent stem cell-derived blood emergence. <i>Nature Communications</i> , 2017, 8, 15380.  | 5.8 | 21        |
| 95  | Engineering cell fitness: lessons for regenerative medicine. <i>Current Opinion in Biotechnology</i> , 2017, 47, 7-15.   | 3.3 | 19        |
| 96  | Fluorescence activated cell sorting reveals heterogeneous and cell non-autonomous osteoprogenitor differentiation in fetal rat calvaria cell populations. <i>Journal of Cellular Biochemistry</i> , 2003, 90, 109-120.   | 1.2 | 18        |
| 97  | Blood stem cell products: Toward sustainable benchmarks for clinical translation. <i>BioEssays</i> , 2013, 35, 201-210.  | 1.2 | 18        |
| 98  | Local BMP-SMAD1 Signaling Increases LIF Receptor-Dependent STAT3 Responsiveness and Primed-to-Naive Mouse Pluripotent Stem Cell Conversion Frequency. <i>Stem Cell Reports</i> , 2014, 3, 156-168.   | 2.3 | 18        |
| 99  | Signal processing underlying extrinsic control of stem cell fate. <i>Current Opinion in Hematology</i> , 2004, 11, 95-101.   | 1.2 | 17        |
| 100 | Clonal evolution of stem and differentiated cells can be predicted by integrating cell-intrinsic and -extrinsic parameters. <i>Biotechnology and Applied Biochemistry</i> , 2005, 42, 119.   | 1.4 | 16        |
| 101 | Phenotypic Analysis of Human Embryonic Stem Cells. , 2007, Chapter 1, Unit 1B.3.   |     | 16        |
| 102 | Microdroplet-based one-step RT-PCR for ultrahigh throughput single-cell multiplex gene expression analysis and rare cell detection. <i>Scientific Reports</i> , 2021, 11, 6777.  | 1.6 | 15        |
| 103 | Synthetic Peptide Arrays for Pathway-Level Protein Monitoring by Liquid Chromatography-Tandem Mass Spectrometry. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 2460-2473.  | 2.5 | 14        |
| 104 | Integrative network analysis of signaling in human CD34 <sup>+</sup> hematopoietic progenitor cells by global phosphoproteomic profiling using TiO <sub>2</sub> enrichment combined with 2D LC-MS/MS and pathway mapping. <i>Proteomics</i> , 2013, 13, 1325-1333. | 1.3 | 14        |
| 105 | Steric Hindrance Assay for Secreted Factors in Stem Cell Culture. <i>ACS Sensors</i> , 2017, 2, 495-500.   | 4.0 | 14        |
| 106 | The AC133 <sup>+</sup> CD38 <sup>-</sup> , but not the rhodamine-low, phenotype tracks LTC-IC and SRC function in human cord blood ex vivo expansion cultures. <i>Blood</i> , 2010, 115, 257-260.  | 0.6 | 13        |
| 107 | Real-time monitoring and control of soluble signaling factors enables enhanced progenitor cell outputs from human cord blood stem cell cultures. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1258-1264.   | 1.7 | 13        |
| 108 | IQCELL: A platform for predicting the effect of gene perturbations on developmental trajectories using single-cell RNA-seq data. <i>PLoS Computational Biology</i> , 2022, 18, e1009907.   | 1.5 | 13        |

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|-----|--|------|-----------|
| 109 | Microenvironment-mediated reversion of epiblast stem cells by reactivation of repressed JAK-STAT signaling. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1367.                               | 0.6  | 12        |
| 110 | Two-dimensional arrays of cell-laden polymer hydrogel modules. <i>Biomicrofluidics</i> , 2016, 10, 014110.   | 1.2  | 12        |
| 111 | An automated system for delivery of an unstable transcription factor to hematopoietic stem cell cultures. <i>Biotechnology and Bioengineering</i> , 2009, 103, 402-412.                                | 1.7  | 11        |
| 112 | Proportional-Integral-Derivative (PID) Control of Secreted Factors for Blood Stem Cell Culture. <i>PLoS ONE</i> , 2015, 10, e0137392.  | 1.1  | 11        |
| 113 | Context-explorer: Analysis of spatially organized protein expression in high-throughput screens. <i>PLoS Computational Biology</i> , 2019, 15, e1006384.   | 1.5  | 11        |
| 114 | Engineering cardiac healing using embryonic stem cell-derived cardiac cell seeded constructs. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 3694.  | 3.0  | 10        |
| 115 | Multi-objective optimization reveals time- and dose-dependent inflammatory cytokine-mediated regulation of human stem cell derived T-cell development. <i>Npj Regenerative Medicine</i> , 2022, 7, 11. | 2.5  | 10        |
| 116 | Two-Color Image Analysis Discriminates between Mineralized and Unmineralized Bone Nodules In Vitro. <i>BioTechniques</i> , 2003, 34, 1188-1198.  | 0.8  | 9         |
| 117 | Environmental Requirements of Hematopoietic Progenitor Cells in Ex Vivo Expansion Systems. , 1999, , 245-272.  |      | 8         |
| 118 | A Global Assessment of Stem Cell Engineering. <i>Tissue Engineering - Part A</i> , 2014, 20, 2575-2589.  | 1.6  | 7         |
| 119 | Endogenous suppression of WNT signalling in human embryonic stem cells leads to low differentiation propensity towards definitive endoderm. <i>Scientific Reports</i> , 2021, 11, 6137.                | 1.6  | 6         |
| 120 | Process evolution in cell and gene therapy from discovery to commercialization. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2517-2524.   | 0.9  | 6         |
| 121 | Enhanced Human Hematopoietic Stem Cell Self-Renewal Enabled by Controlling Feedback Signaling From Lineage Committed Cells. <i>Blood</i> , 2011, 118, 1274-1274.                                       | 0.6  | 5         |
| 122 | Human pluripotent stem cell process parameter optimization in a small scale suspension bioreactor. <i>BMC Proceedings</i> , 2015, 9, O10.  | 1.8  | 3         |
| 123 | Chasing blood. <i>Nature</i> , 2015, 518, 488-490.   | 13.7 | 3         |
| 124 | Mechanics-guided developmental fate patterning. <i>Nature Materials</i> , 2018, 17, 571-572.   | 13.3 | 3         |
| 125 | Single UM171 Expanded Cord Blood Permits Transplantation of Better HLA Matched Cords with Excellent Gvhd Relapse Free Survival. <i>Blood</i> , 2018, 132, 4658-4658.                                   | 0.6  | 3         |
| 126 | Systematic Approach to the Development of Stem Cell Expansion Cultures. , 2004, , 663-676.   |      | 2         |



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|-----|---|-----|-----------|
| 127 | Pairing cells to enhance fusion. Nature Methods, 2009, 6, 123-124.  | 9.0 | 2         |
| 128 | Culture Conditions for Generating Human Bone Marrow Stromal Cells Influence Cell Immunophenotype and In Vivo Biodistribution in Immune Deficient Mice.. Blood, 2004, 104, 2334-2334.                              | 0.6 | 1         |
| 129 | Computational Modeling and Stem Cell Engineering. Science Policy Reports, 2014, , 65-97.  | 0.1 | 0         |
| 130 | Bringing Blood Stem Cell Phenotype, Genotype, and Function Closer Together. Cell Stem Cell, 2015, 16, 574-575.  | 5.2 | 0         |
| 131 | Enhancement of Soluble Transcription Factor (TAT-HOXB4 and TAT-NUP98HOXA10HD) - Mediated Human Hematopoietic Stem Cell Self-Renewal by Minimizing Inhibitory Endogenous Signalling.. Blood, 2009, 114, 1493-1493. | 0.6 | 0         |
| 132 | Engineering the Pluripotent Stem Cell Niche for Directed Mesoderm Differentiation. , 2012, , 1-26.  |     | 0         |