

Peter W Zandstra

List of Publications by Year in Descending Order

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Version: 2024-04-19

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

135
papers

11,974
citations

56
h-index

109
g-index

146
ext. papers

13,685
ext. citations

11.3
avg, IF

6.32
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 135 | 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 | 15.8 | 1 |
| 134 | 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 | 5 | 3 |
| 133 | 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 | 4.9 | 2 |
| 132 | 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 | 4.9 | 1 |
| 131 | A 96-well culture platform enables longitudinal analyses of engineered human skeletal muscle microtissue strength. <i>Scientific Reports</i> , 2020 , 10, 6918 | 4.9 | 34 |
| 130 | Functional arrays of human pluripotent stem cell-derived cardiac microtissues. <i>Scientific Reports</i> , 2020 , 10, 6919 | 4.9 | 14 |
| 129 | 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 | 14.6 | 67 |
| 128 | Context-explorer: Analysis of spatially organized protein expression in high-throughput screens. <i>PLoS Computational Biology</i> , 2019 , 15, e1006384 | 5 | 7 |
| 127 | Human Embryonic Stem Cell-Derived Cardiomyocytes Regenerate the Infarcted Pig Heart but Induce Ventricular Tachyarrhythmias. <i>Stem Cell Reports</i> , 2019 , 12, 967-981 | 8 | 127 |
| 126 | Cell competition during reprogramming gives rise to dominant clones. <i>Science</i> , 2019 , 364, | 33.3 | 51 |
| 125 | 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 | 10.6 | 16 |
| 124 | High-throughput micropatterning platform reveals Nodal-dependent bisection of peri-gastrulation-associated versus preneurulation-associated fate patterning. <i>PLoS Biology</i> , 2019 , 17, e3000081 | 9.7 | 17 |
| 123 | Chemically controlled aggregation of pluripotent stem cells. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2061-2066 | 4.9 | 14 |
| 122 | Modeling signaling-dependent pluripotency with Boolean logic to predict cell fate transitions. <i>Molecular Systems Biology</i> , 2018 , 14, e7952 | 12.2 | 29 |
| 121 | A Myc enhancer cluster regulates normal and leukaemic haematopoietic stem cell hierarchies. <i>Nature</i> , 2018 , 553, 515-520 | 50.4 | 142 |
| 120 | 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 | 8 | 15 |
| 119 | Convenience versus Biological Significance: Are PMA-Differentiated THP-1 Cells a Reliable Substitute for Blood-Derived Macrophages When Studying Polarization?. <i>Frontiers in Pharmacology</i> , 2018 , 9, 71 | 5.6 | 84 |

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| 118 | Stem cell bioengineering: building from stem cell biology. <i>Nature Reviews Genetics</i> , 2018 , 19, 595-614 | 30.1 | 51 |
| 117 | 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 | 11.5 | 18 |
| 116 | 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 | 2.2 | 3 |
| 115 | Mechanics-guided developmental fate patterning. <i>Nature Materials</i> , 2018 , 17, 571-572 | 27 | 2 |
| 114 | Engineering a humanized bone organ model in mice to study bone metastases. <i>Nature Protocols</i> , 2017 , 12, 639-663 | 18.8 | 74 |
| 113 | Progenitor T-cell differentiation from hematopoietic stem cells using Delta-like-4 and VCAM-1. <i>Nature Methods</i> , 2017 , 14, 531-538 | 21.6 | 70 |
| 112 | Steric Hindrance Assay for Secreted Factors in Stem Cell Culture. <i>ACS Sensors</i> , 2017 , 2, 495-500 | 9.2 | 11 |
| 111 | Engineering the haemogenic niche mitigates endogenous inhibitory signals and controls pluripotent stem cell-derived blood emergence. <i>Nature Communications</i> , 2017 , 8, 15380 | 17.4 | 16 |
| 110 | Engineering cell fitness: lessons for regenerative medicine. <i>Current Opinion in Biotechnology</i> , 2017 , 47, 7-15 | 11.4 | 14 |
| 109 | Achieving Efficient Manufacturing and Quality Assurance through Synthetic Cell Therapy Design. <i>Cell Stem Cell</i> , 2017 , 20, 13-17 | 18 | 26 |
| 108 | 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 | 6.6 | 84 |
| 107 | Synthetic gene circuits and cellular decision-making in human pluripotent stem cells. <i>Current Opinion in Systems Biology</i> , 2017 , 5, 93-103 | 3.2 | 17 |
| 106 | Enhanced human hematopoietic stem and progenitor cell engraftment by blocking donor T cell-mediated TNF signaling. <i>Science Translational Medicine</i> , 2017 , 9, | 17.5 | 15 |
| 105 | Proneurogenic Ligands Defined by Modeling Developing Cortex Growth Factor Communication Networks. <i>Neuron</i> , 2016 , 91, 988-1004 | 13.9 | 28 |
| 104 | Distinguishing autocrine and paracrine signals in hematopoietic stem cell culture using a biofunctional microcavity platform. <i>Scientific Reports</i> , 2016 , 6, 31951 | 4.9 | 24 |
| 103 | Signaling Networks among Stem Cell Precursors, Transit-Amplifying Progenitors, and their Niche in Developing Hair Follicles. <i>Cell Reports</i> , 2016 , 14, 3001-18 | 10.6 | 98 |
| 102 | miR-126 Regulates Distinct Self-Renewal Outcomes in Normal and Malignant Hematopoietic Stem Cells. <i>Cancer Cell</i> , 2016 , 29, 214-28 | 24.3 | 118 |
| 101 | Two-dimensional arrays of cell-laden polymer hydrogel modules. <i>Biomicrofluidics</i> , 2016 , 10, 014110 | 3.2 | 10 |

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|-----|---|------|-----|
| 100 | A 17-gene stemness score for rapid determination of risk in acute leukaemia. <i>Nature</i> , 2016 , 540, 433-437 | 50.4 | 369 |
| 99 | Quality cell therapy manufacturing by design. <i>Nature Biotechnology</i> , 2016 , 34, 393-400 | 44.5 | 150 |
| 98 | CD24 tracks divergent pluripotent states in mouse and human cells. <i>Nature Communications</i> , 2015 , 6, 7329 | 17.4 | 56 |
| 97 | LIF signaling in stem cells and development. <i>Development (Cambridge)</i> , 2015 , 142, 2230-6 | 6.6 | 73 |
| 96 | Human pluripotent stem cell process parameter optimization in a small scale suspension bioreactor. <i>BMC Proceedings</i> , 2015 , 9, O10 | 2.3 | 3 |
| 95 | Proportional-Integral-Derivative (PID) Control of Secreted Factors for Blood Stem Cell Culture. <i>PLoS ONE</i> , 2015 , 10, e0137392 | 3.7 | 9 |
| 94 | The microwell-mesh: A novel device and protocol for the high throughput manufacturing of cartilage microtissues. <i>Biomaterials</i> , 2015 , 62, 1-12 | 15.6 | 52 |
| 93 | Bringing Blood Stem Cell Phenotype, Genotype, and Function Closer Together. <i>Cell Stem Cell</i> , 2015 , 16, 574-5 | 18 | |
| 92 | Stem cells: Chasing blood. <i>Nature</i> , 2015 , 518, 488-90 | 50.4 | 3 |
| 91 | A mass spectrometric-derived cell surface protein atlas. <i>PLoS ONE</i> , 2015 , 10, e0121314 | 3.7 | 199 |
| 90 | A global assessment of stem cell engineering. <i>Tissue Engineering - Part A</i> , 2014 , 20, 2575-89 | 3.9 | 5 |
| 89 | 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, 1258-64 | 4.9 | 12 |
| 88 | Intercellular network structure and regulatory motifs in the human hematopoietic system. <i>Molecular Systems Biology</i> , 2014 , 10, 741 | 12.2 | 41 |
| 87 | Cord blood expansion. Pyrimidoindole derivatives are agonists of human hematopoietic stem cell self-renewal. <i>Science</i> , 2014 , 345, 1509-12 | 33.3 | 339 |
| 86 | Computational Modeling and Stem Cell Engineering. <i>Science Policy Reports</i> , 2014 , 65-97 | | |
| 85 | Blood stem cell fate regulation by Delta-1-mediated rewiring of IL-6 paracrine signaling. <i>Blood</i> , 2014 , 123, 650-8 | 2.2 | 21 |
| 84 | 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, 156-68 | 8 | 13 |
| 83 | 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, 1335-49 | 3.8 | 23 |

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|----|---|------|-----|
| 82 | Genome-wide characterization of the routes to pluripotency. <i>Nature</i> , 2014 , 516, 198-206 | 50.4 | 153 |
| 81 | High-throughput fingerprinting of human pluripotent stem cell fate responses and lineage bias. <i>Nature Methods</i> , 2013 , 10, 1225-31 | 21.6 | 51 |
| 80 | Blood stem cell products: toward sustainable benchmarks for clinical translation. <i>BioEssays</i> , 2013 , 35, 201-10 | 4.1 | 14 |
| 79 | High density continuous production of murine pluripotent cells in an acoustic perfused bioreactor at different oxygen concentrations. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 648-55 | 4.9 | 35 |
| 78 | Integrative network analysis of signaling in human CD34(+) hematopoietic progenitor cells by global phosphoproteomic profiling using TiO2 enrichment combined with 2D LC-MS/MS and pathway mapping. <i>Proteomics</i> , 2013 , 13, 1325-33 | 4.8 | 12 |
| 77 | 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 | 11.5 | 209 |
| 76 | Systematic engineering of 3D pluripotent stem cell niches to guide blood development. <i>Biomaterials</i> , 2012 , 33, 1271-80 | 15.6 | 41 |
| 75 | Rapid expansion of human hematopoietic stem cells by automated control of inhibitory feedback signaling. <i>Cell Stem Cell</i> , 2012 , 10, 218-29 | 18 | 194 |
| 74 | Derivation, expansion and differentiation of induced pluripotent stem cells in continuous suspension cultures. <i>Nature Methods</i> , 2012 , 9, 509-16 | 21.6 | 84 |
| 73 | Tissue engineering 2.0: guiding self-organization during pluripotent stem cell differentiation. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 810-9 | 11.4 | 28 |
| 72 | Microenvironment-mediated reversion of epiblast stem cells by reactivation of repressed JAK-STAT signaling. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 1367-76 | 3.7 | 12 |
| 71 | PERT: a method for expression deconvolution of human blood samples from varied microenvironmental and developmental conditions. <i>PLoS Computational Biology</i> , 2012 , 8, e1002838 | 5 | 84 |
| 70 | 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, 3264-9 | 11.5 | 56 |
| 69 | A microfabricated platform to measure and manipulate the mechanics of engineered cardiac microtissues. <i>Tissue Engineering - Part A</i> , 2012 , 18, 910-9 | 3.9 | 289 |
| 68 | Engineering the Pluripotent Stem Cell Niche for Directed Mesoderm Differentiation 2012 , 1-26 | | |
| 67 | High-throughput combinatorial cell co-culture using microfluidics. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 653-62 | 3.7 | 162 |
| 66 | An alternative splicing switch regulates embryonic stem cell pluripotency and reprogramming. <i>Cell</i> , 2011 , 147, 132-46 | 56.2 | 253 |
| 65 | Engineered heart tissue enables study of residual undifferentiated embryonic stem cell activity in a cardiac environment. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 704-19 | 4.9 | 20 |

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|----|---|------|------|
| 64 | Incorporation of biomaterials in multicellular aggregates modulates pluripotent stem cell differentiation. <i>Biomaterials</i> , 2011 , 32, 48-56 | 15.6 | 134 |
| 63 | High-throughput generation of hydrogel microbeads with varying elasticity for cell encapsulation. <i>Biomaterials</i> , 2011 , 32, 1477-83 | 15.6 | 162 |
| 62 | Geometric control of cardiomyogenic induction in human pluripotent stem cells. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1901-9 | 3.9 | 71 |
| 61 | Enhanced Human Hematopoietic Stem Cell Self-Renewal Enabled by Controlling Feedback Signaling From Lineage Committed Cells. <i>Blood</i> , 2011 , 118, 1274-1274 | 2.2 | 1 |
| 60 | Immobilization of growth factors on solid supports for the modulation of stem cell fate. <i>Nature Protocols</i> , 2010 , 5, 1042-50 | 18.8 | 49 |
| 59 | Enabling stem cell therapies through synthetic stem cell-niche engineering. <i>Journal of Clinical Investigation</i> , 2010 , 120, 60-70 | 15.9 | 132 |
| 58 | Synthetic peptide arrays for pathway-level protein monitoring by liquid chromatography-tandem mass spectrometry. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 2460-73 | 7.6 | 12 |
| 57 | 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, 3329-34 | 11.5 | 74 |
| 56 | Dynamic interaction networks in a hierarchically organized tissue. <i>Molecular Systems Biology</i> , 2010 , 6, 417 | 12.2 | 104 |
| 55 | The AC133+CD38-, 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, 257-60 | 2.2 | 11 |
| 54 | The use of vascular endothelial growth factor functionalized agarose to guide pluripotent stem cell aggregates toward blood progenitor cells. <i>Biomaterials</i> , 2010 , 31, 8262-70 | 15.6 | 60 |
| 53 | Cell-cell interaction networks regulate blood stem and progenitor cell fate. <i>Molecular Systems Biology</i> , 2009 , 5, 293 | 12.2 | 92 |
| 52 | 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 | 4.9 | 188 |
| 51 | An automated system for delivery of an unstable transcription factor to hematopoietic stem cell cultures. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 402-12 | 4.9 | 10 |
| 50 | Growth factors, matrices, and forces combine and control stem cells. <i>Science</i> , 2009 , 324, 1673-7 | 33.3 | 2065 |
| 49 | Manipulation of signaling thresholds in "engineered stem cell niches" identifies design criteria for pluripotent stem cell screens. <i>PLoS ONE</i> , 2009 , 4, e6438 | 3.7 | 60 |
| 48 | Enhancement of Soluble Transcription Factor (TAT-HOXB4 and TAT-NUP98HOXA10HD) - Mediated Human Hematopoietic Stem Cell Self-Renewal by Minimizing Inhibitory Endogenous Signalling.. <i>Blood</i> , 2009 , 114, 1493-1493 | 2.2 | |
| 47 | TAZ controls Smad nucleocytoplasmic shuttling and regulates human embryonic stem-cell self-renewal. <i>Nature Cell Biology</i> , 2008 , 10, 837-48 | 23.4 | 482 |

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|----|--|------|-----|
| 46 | Functional immobilization of signaling proteins enables control of stem cell fate. <i>Nature Methods</i> , 2008 , 5, 645-50 | 21.6 | 180 |
| 45 | 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, 1186-98 | 3.1 | 23 |
| 44 | The systematic production of cells for cell therapies. <i>Cell Stem Cell</i> , 2008 , 3, 369-81 | 18 | 240 |
| 43 | 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, 369-78 | 3.9 | 57 |
| 42 | 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 | 3.7 | 329 |
| 41 | Control of human embryonic stem cell colony and aggregate size heterogeneity influences differentiation trajectories. <i>Stem Cells</i> , 2008 , 26, 2300-10 | 5.8 | 361 |
| 40 | Soluble Flt-1 regulates Flk-1 activation to control hematopoietic and endothelial development in an oxygen-responsive manner. <i>Stem Cells</i> , 2008 , 26, 2832-42 | 5.8 | 30 |
| 39 | Engineering cardiac healing using embryonic stem cell-derived cardiac cell seeded constructs. <i>Frontiers in Bioscience - Landmark</i> , 2007 , 12, 3694-712 | 2.8 | 9 |
| 38 | LIF-mediated control of embryonic stem cell self-renewal emerges due to an autoregulatory loop. <i>FASEB Journal</i> , 2007 , 21, 2020-32 | 0.9 | 59 |
| 37 | Sensitivity analysis of intracellular signaling pathway kinetics predicts targets for stem cell fate control. <i>PLoS Computational Biology</i> , 2007 , 3, e130 | 5 | 48 |
| 36 | Prediction and testing of novel transcriptional networks regulating embryonic stem cell self-renewal and commitment. <i>Cell Stem Cell</i> , 2007 , 1, 71-86 | 18 | 81 |
| 35 | Niche-mediated control of human embryonic stem cell self-renewal and differentiation. <i>EMBO Journal</i> , 2007 , 26, 4744-55 | 13 | 327 |
| 34 | Phenotypic analysis of human embryonic stem cells. <i>Current Protocols in Stem Cell Biology</i> , 2007 , Chapter 1, Unit 1B.3 | 2.8 | 14 |
| 33 | Spatial organization of embryonic stem cell responsiveness to autocrine gp130 ligands reveals an autoregulatory stem cell niche. <i>Stem Cells</i> , 2006 , 24, 2538-48 | 5.8 | 51 |
| 32 | 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, 1020-30 | 4.7 | 46 |
| 31 | Understanding cellular networks to improve hematopoietic stem cell expansion cultures. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 538-47 | 11.4 | 31 |
| 30 | 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, 119-31 | 2.8 | 16 |
| 29 | Scalable production of embryonic stem cell-derived cells. <i>Methods in Molecular Biology</i> , 2005 , 290, 353-64.4 | 64.4 | 24 |

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|----|---|------|-----|
| 28 | Shear-controlled single-step mouse embryonic stem cell expansion and embryoid body-based differentiation. <i>Stem Cells</i> , 2005 , 23, 1333-42 | 5.8 | 203 |
| 27 | 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, 1229-39 | 3.1 | 56 |
| 26 | 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, 452-61 | 4.9 | 132 |
| 25 | 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, 2900-5 | 11.5 | 99 |
| 24 | Sustained in vitro expansion of bone progenitors is cell density dependent. <i>Stem Cells</i> , 2004 , 22, 39-50 | 5.8 | 67 |
| 23 | Controlled, scalable embryonic stem cell differentiation culture. <i>Stem Cells</i> , 2004 , 22, 275-82 | 5.8 | 245 |
| 22 | Quantitative screening of embryonic stem cell differentiation: endoderm formation as a model. <i>Biotechnology and Bioengineering</i> , 2004 , 88, 287-98 | 4.9 | 36 |
| 21 | Systematic Approach to the Development of Stem Cell Expansion Cultures 2004 , 663-676 | | |
| 20 | Signal processing underlying extrinsic control of stem cell fate. <i>Current Opinion in Hematology</i> , 2004 , 11, 95-101 | 3.3 | 17 |
| 19 | Culture Conditions for Generating Human Bone Marrow Stromal Cells Influence Cell Immunophenotype and In Vivo Biodistribution in Immune Deficient Mice.. <i>Blood</i> , 2004 , 104, 2334-2334 | 2.2 | 1 |
| 18 | Two-color image analysis discriminates between mineralized and unmineralized bone nodules in vitro. <i>BioTechniques</i> , 2003 , 34, 1188-92, 1194, 1196 passim | 2.5 | 9 |
| 17 | Towards predictive models of stem cell fate. <i>Cytotechnology</i> , 2003 , 41, 75-92 | 2.2 | 40 |
| 16 | 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, 109-20 | 4.7 | 16 |
| 15 | Supplementation-dependent differences in the rates of embryonic stem cell self-renewal, differentiation, and apoptosis. <i>Biotechnology and Bioengineering</i> , 2003 , 84, 505-17 | 4.9 | 42 |
| 14 | Scalable production of embryonic stem cell-derived cardiomyocytes. <i>Tissue Engineering</i> , 2003 , 9, 767-78 | | 252 |
| 13 | Efficiency of embryoid body formation and hematopoietic development from embryonic stem cells in different culture systems. <i>Biotechnology and Bioengineering</i> , 2002 , 78, 442-53 | 4.9 | 301 |
| 12 | 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, 119-38 | 5.8 | 79 |
| 11 | Stem cell bioengineering. <i>Annual Review of Biomedical Engineering</i> , 2001 , 3, 275-305 | 12 | 110 |

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|----|--|------|----|
| 10 | 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 | 2.2 | 94 |
| 9 | Environmental Requirements of Hematopoietic Progenitor Cells in Ex Vivo Expansion Systems 1999 , 245-272 | | 5 |
| 8 | Advances in hematopoietic stem cell culture. <i>Current Opinion in Biotechnology</i> , 1998 , 9, 146-51 | 11.4 | 31 |
| 7 | Expansion of hematopoietic progenitor cell populations in stirred suspension bioreactors of normal human bone marrow cells. <i>Nature Biotechnology</i> , 1994 , 12, 909-14 | 44.5 | 73 |
| 6 | A defined platform of human peri-gastrulation-like biological fate patterning reveals coordination between Reaction-Diffusion and Positional-Information | | 3 |
| 5 | High-throughput micro-patterning platform reveals Nodal-dependent dissection of peri-gastrulation-associated versus pre-neurulation associated fate patterning | | 1 |
| 4 | Functional arrays of human pluripotent stem cell-derived cardiac microtissues | | 3 |
| 3 | Modeling signaling-dependent pluripotent cell states with boolean logic can predict cell fate transitions | | 1 |
| 2 | IQCELL: A platform for predicting the effect of gene perturbations on developmental trajectories using single-cell RNA-seq data | | 1 |
| 1 | Process evolution in cell and gene therapy from discovery to commercialization. <i>Canadian Journal of Chemical Engineering</i> , | 2.3 | 1 |