

# Timothy J Nelson

## List of Publications by Citations

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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.

98  
papers

4,208  
citations

33  
h-index

63  
g-index

109  
ext. papers

4,961  
ext. citations

6.4  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
98	Somatic oxidative bioenergetics transitions into pluripotency-dependent glycolysis to facilitate nuclear reprogramming. <i>Cell Metabolism</i> , <b>2011</b> , 14, 264-71	24.6	725
97	Metabolic plasticity in stem cell homeostasis and differentiation. <i>Cell Stem Cell</i> , <b>2012</b> , 11, 596-606	18	439
96	Repair of acute myocardial infarction by human stemness factors induced pluripotent stem cells. <i>Circulation</i> , <b>2009</b> , 120, 408-16	16.7	386
95	Induced pluripotent stem cells: developmental biology to regenerative medicine. <i>Nature Reviews Cardiology</i> , <b>2010</b> , 7, 700-10	14.8	110
94	CXCR4+/FLK-1+ biomarkers select a cardiopoietic lineage from embryonic stem cells. <i>Stem Cells</i> , <b>2008</b> , 26, 1464-73	5.8	99
93	Patients with heart failure have an increased risk of incident cancer. <i>Journal of the American College of Cardiology</i> , <b>2013</b> , 62, 881-6	15.1	95
92	Disease-causing mitochondrial heteroplasmy segregated within induced pluripotent stem cell clones derived from a patient with MELAS. <i>Stem Cells</i> , <b>2013</b> , 31, 1298-308	5.8	94
91	iPS programmed without c-MYC yield proficient cardiogenesis for functional heart chimerism. <i>Circulation Research</i> , <b>2009</b> , 105, 648-56	15.7	92
90	Time course transcriptome data analysis for in vitro modeling of dilated cardiomyopathy using patient-derived induced pluripotent stem cells. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, P8	3.6	78
89	SRF-dependent gene expression in isolated cardiomyocytes: regulation of genes involved in cardiac hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2005</b> , 39, 479-89	5.8	78
88	Mitochondria in control of cell fate. <i>Circulation Research</i> , <b>2012</b> , 110, 526-9	15.7	68
87	Energy metabolism plasticity enables stemness programs. <i>Annals of the New York Academy of Sciences</i> , <b>2012</b> , 1254, 82-9	6.5	67
86	Stem cell platforms for regenerative medicine. <i>Clinical and Translational Science</i> , <b>2009</b> , 2, 222-7	4.9	65
85	Modeling structural and functional deficiencies of RBM20 familial dilated cardiomyopathy using human induced pluripotent stem cells. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 254-65	5.6	63
84	Embryonic stem cell therapy of heart failure in genetic cardiomyopathy. <i>Stem Cells</i> , <b>2008</b> , 26, 2644-53	5.8	63
83	Identification and characterization of a glycosaminoglycan recognition element of the C chemokine lymphotactin. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 12598-604	5.4	62
82	Improved cardiac function in infarcted mice after treatment with pluripotent embryonic stem cells. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , <b>2006</b> , 288, 1216-24		54

81	Transcriptome from circulating cells suggests dysregulated pathways associated with long-term recurrent events following first-time myocardial infarction. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2014</b> , 74, 13-21	5.8	53
80	c-MYC independent nuclear reprogramming favors cardiogenic potential of induced pluripotent stem cells. <i>Journal of Cardiovascular Translational Research</i> , <b>2010</b> , 3, 13-23	3.3	51
79	Strategies for therapeutic repair: The "R(3)" regenerative medicine paradigm. <i>Clinical and Translational Science</i> , <b>2008</b> , 1, 168-171	4.9	51
78	Ebstein anomaly review: what's now, what's next?. <i>Expert Review of Cardiovascular Therapy</i> , <b>2015</b> , 13, 1101-9	2.5	50
77	Natural underlying mtDNA heteroplasmy as a potential source of intra-person hiPSC variability. <i>EMBO Journal</i> , <b>2016</b> , 35, 1979-90	13	50
76	Energy metabolism in nuclear reprogramming. <i>Biomarkers in Medicine</i> , <b>2011</b> , 5, 715-29	2.3	48
75	Regenerative therapy for hypoplastic left heart syndrome: first report of intraoperative intramyocardial injection of autologous umbilical-cord blood-derived cells. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2015</b> , 149, e35-7	1.5	46
74	New and TALEnted genome engineering toolbox. <i>Circulation Research</i> , <b>2013</b> , 113, 571-87	15.7	43
73	Nuclear reprogramming with c-Myc potentiates glycolytic capacity of derived induced pluripotent stem cells. <i>Journal of Cardiovascular Translational Research</i> , <b>2013</b> , 6, 10-21	3.3	43
72	Compound heterozygous NOTCH1 mutations underlie impaired cardiogenesis in a patient with hypoplastic left heart syndrome. <i>Human Genetics</i> , <b>2015</b> , 134, 1003-11	6.3	42
71	Rbm20-deficient cardiogenesis reveals early disruption of RNA processing and sarcomere remodeling establishing a developmental etiology for dilated cardiomyopathy. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 3779-91	5.6	42
70	The science and ethics of induced pluripotency: what will become of embryonic stem cells?. <i>Mayo Clinic Proceedings</i> , <b>2011</b> , 86, 634-40	6.4	40
69	Altered serotonergic circuitry in SSRI-resistant major depressive disorder patient-derived neurons. <i>Molecular Psychiatry</i> , <b>2019</b> , 24, 808-818	15.1	38
68	Current Interventional and Surgical Management of Congenital Heart Disease: Specific Focus on Valvular Disease and Cardiac Arrhythmias. <i>Circulation Research</i> , <b>2017</b> , 120, 1027-1044	15.7	35
67	Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome. <i>Cell Stem Cell</i> , <b>2020</b> , 27, 574-589.e8	18	34
66	Apoptotic susceptibility to DNA damage of pluripotent stem cells facilitates pharmacologic purging of teratoma risk. <i>Stem Cells Translational Medicine</i> , <b>2012</b> , 1, 709-18	6.9	33
65	Transcriptional atlas of cardiogenesis maps congenital heart disease interactome. <i>Physiological Genomics</i> , <b>2014</b> , 46, 482-95	3.6	32
64	Regenerative medicine primer. <i>Mayo Clinic Proceedings</i> , <b>2013</b> , 88, 766-75	6.4	32

63	Induced pluripotent stem cells: an emerging theranostics platform. <i>Clinical Pharmacology and Therapeutics</i> , <b>2011</b> , 89, 648-50	6.1	32
62	Induced pluripotent stem cell intervention rescues ventricular wall motion disparity, achieving biological cardiac resynchronization post-infarction. <i>Journal of Physiology</i> , <b>2013</b> , 591, 4335-49	3.9	30
61	Serotonin-induced hyperactivity in SSRI-resistant major depressive disorder patient-derived neurons. <i>Molecular Psychiatry</i> , <b>2019</b> , 24, 795-807	15.1	28
60	Metabolome and metaboproteome remodeling in nuclear reprogramming. <i>Cell Cycle</i> , <b>2013</b> , 12, 2355-65	4.7	28
59	Induced pluripotent reprogramming from promiscuous human stemness related factors. <i>Clinical and Translational Science</i> , <b>2009</b> , 2, 118-26	4.9	28
58	m.3243A > G-Induced Mitochondrial Dysfunction Impairs Human Neuronal Development and Reduces Neuronal Network Activity and Synchronicity. <i>Cell Reports</i> , <b>2020</b> , 31, 107538	10.6	25
57	Autologous stem cell therapy for hypoplastic left heart syndrome: Safety and feasibility of intraoperative intramyocardial injections. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2019</b> , 158, 1614-1623	1.5	25
56	Human umbilical cord blood-derived mononuclear cells improve murine ventricular function upon intramyocardial delivery in right ventricular chronic pressure overload. <i>Stem Cell Research and Therapy</i> , <b>2015</b> , 6, 50	8.3	25
55	NOTCH1-Dependent Nitric Oxide Signaling Deficiency in Hypoplastic Left Heart Syndrome Revealed Through Patient-Specific Phenotypes Detected in Bioengineered Cardiogenesis. <i>Stem Cells</i> , <b>2017</b> , 35, 1106-1119	5.8	23
54	Stem cell transplant into preimplantation embryo yields myocardial infarction-resistant adult phenotype. <i>Stem Cells</i> , <b>2009</b> , 27, 1697-705	5.8	23
53	Lineage specification of Flk-1+ progenitors is associated with divergent Sox7 expression in cardiopoiesis. <i>Differentiation</i> , <b>2009</b> , 77, 248-55	3.5	23
52	Stem cells: the pursuit of genomic stability. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 20948-673	6.3	22
51	Inhibition of DNA topoisomerase II selectively reduces the threat of tumorigenicity following induced pluripotent stem cell-based myocardial therapy. <i>Stem Cells and Development</i> , <b>2014</b> , 23, 2274-82	4.4	21
50	Safety and feasibility for pediatric cardiac regeneration using epicardial delivery of autologous umbilical cord blood-derived mononuclear cells established in a porcine model system. <i>Stem Cells Translational Medicine</i> , <b>2015</b> , 4, 195-206	6.9	20
49	Closure of a Recurrent Bronchopleural Fistula Using a Matrix Seeded With Patient-Derived Mesenchymal Stem Cells. <i>Stem Cells Translational Medicine</i> , <b>2016</b> , 5, 1375-1379	6.9	20
48	Nuclear reprogramming strategy modulates differentiation potential of induced pluripotent stem cells. <i>Journal of Cardiovascular Translational Research</i> , <b>2011</b> , 4, 131-7	3.3	20
47	Cardiogenic induction of pluripotent stem cells streamlined through a conserved SDF-1/VEGF/BMP2 integrated network. <i>PLoS ONE</i> , <b>2010</b> , 5, e9943	3.7	20
46	ATP-sensitive K(+) channel-deficient dilated cardiomyopathy proteome remodeled by embryonic stem cell therapy. <i>Stem Cells</i> , <b>2010</b> , 28, 1355-67	5.8	19

45	Conserved enhancer in the serum response factor promoter controls expression during early coronary vasculogenesis. <i>Circulation Research</i> , <b>2004</b> , 94, 1059-66	15.7	19
44	Single-Cell RNA-Sequencing and Optical Electrophysiology of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes Reveal Discordance Between Cardiac Subtype-Associated Gene Expression Patterns and Electrophysiological Phenotypes. <i>Stem Cells and Development</i> , <b>2019</b> , 28, 659-673	4.4	18
43	Regenerative Therapy Prevents Heart Failure Progression in Dyssynchronous Nonischemic Narrow QRS Cardiomyopathy. <i>Journal of the American Heart Association</i> , <b>2015</b> , 4,	6	18
42	Decoded calreticulin-deficient embryonic stem cell transcriptome resolves latent cardiophenotype. <i>Stem Cells</i> , <b>2010</b> , 28, 1281-91	5.8	18
41	KCNJ11 knockout morula re-engineered by stem cell diploid aggregation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 269-76	5.8	17
40	Hypoplastic left heart syndrome: From bedside to bench and back. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2019</b> , 135, 109-118	5.8	16
39	Mechanical dyssynchrony precedes QRS widening in ATP-sensitive K <sup>+</sup> channel-deficient dilated cardiomyopathy. <i>Journal of the American Heart Association</i> , <b>2013</b> , 2, e000410	6	16
38	SDF-1-enhanced cardiogenesis requires CXCR4 induction in pluripotent stem cells. <i>Journal of Cardiovascular Translational Research</i> , <b>2010</b> , 3, 674-82	3.3	16
37	Natural cardiogenesis-based template predicts cardiogenic potential of induced pluripotent stem cell lines. <i>Circulation: Cardiovascular Genetics</i> , <b>2013</b> , 6, 462-71		15
36	Patient-Specific Induced Pluripotent Stem Cells Implicate Intrinsic Impaired Contractility in Hypoplastic Left Heart Syndrome. <i>Circulation</i> , <b>2020</b> , 142, 1605-1608	16.7	14
35	Induced pluripotent stem cells: advances to applications. <i>Stem Cells and Cloning: Advances and Applications</i> , <b>2010</b> , 3, 29-37	2.6	13
34	Addressing Variability and Heterogeneity of Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Advances in Experimental Medicine and Biology</i> , <b>2020</b> , 1212, 1-29	3.6	12
33	Human Induced Pluripotent Stem Cell-Derived Non-Cardiomyocytes Modulate Cardiac Electrophysiological Maturation Through Connexin 43-Mediated Cell-Cell Interactions. <i>Stem Cells and Development</i> , <b>2020</b> , 29, 75-89	4.4	12
32	Stem cells: clinical trials results the end of the beginning or the beginning of the end?. <i>Cardiovascular &amp; Hematological Disorders Drug Targets</i> , <b>2010</b> , 10, 186-201	1.1	11
31	Challenging misinformation and engaging patients: characterizing a regenerative medicine consult service. <i>Regenerative Medicine</i> , <b>2020</b> , 15, 1427-1440	2.5	10
30	Selection via pluripotency-related transcriptional screen minimizes the influence of somatic origin on iPSC differentiation propensity. <i>Stem Cells</i> , <b>2014</b> , 32, 2350-9	5.8	10
29	Patient-specific genomics and cross-species functional analysis implicate LRP2 in hypoplastic left heart syndrome. <i>ELife</i> , <b>2020</b> , 9,	8.9	9
28	The inferred cardiogenic gene regulatory network in the mammalian heart. <i>PLoS ONE</i> , <b>2014</b> , 9, e100842	3.7	8

27	iPS cell-derived cardiogenicity is hindered by sustained integration of reprogramming transgenes. <i>Circulation: Cardiovascular Genetics</i> , <b>2014</b> , 7, 667-76		8
26	Experimental therapeutics: a paradigm for personalized medicine. <i>Clinical and Translational Science</i> , <b>2009</b> , 2, 436-8	4.9	8
25	Disease modeling studies using induced pluripotent stem cells: are we using enough controls?. <i>Regenerative Medicine</i> , <b>2017</b> ,	2.5	7
24	CXCR4+ and FLK-1+ identify circulating cells associated with improved cardiac function in patients following myocardial infarction. <i>Journal of Cardiovascular Translational Research</i> , <b>2013</b> , 6, 787-97	3.3	7
23	Clinical pharmacology: a paradigm for individualized medicine. <i>Biomarkers in Medicine</i> , <b>2009</b> , 3, 679-84	2.3	7
22	Model system identification of novel congenital heart disease gene candidates: focus on RPL13. <i>Human Molecular Genetics</i> , <b>2019</b> , 28, 3954-3969	5.6	6
21	Embryonic Decellularized Cardiac Scaffold Supports Embryonic Stem Cell Differentiation to Produce Beating Cardiac Tissue. <i>ISRN Stem Cells</i> , <b>2014</b> , 2014, 1-10		6
20	Induced pluripotent stem cells for cardiovascular disease: from product-focused disease modeling to process-focused disease discovery. <i>Regenerative Medicine</i> , <b>2015</b> , 10, 773-83	2.5	5
19	Mitochondrial DNA: Hotspot for Potential Gene Modifiers Regulating Hypertrophic Cardiomyopathy. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	5
18	Systems-based technologies in profiling the stem cell molecular framework for cardioregenerative medicine. <i>Stem Cell Reviews and Reports</i> , <b>2015</b> , 11, 501-10	6.4	4
17	Nos3 <sup>-/-</sup> iPSCs model concordant signatures of in utero cardiac pathogenesis. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 87, 228-36	5.8	3
16	Stem Cell Therapy and Congenital Heart Disease. <i>Journal of Cardiovascular Development and Disease</i> , <b>2016</b> , 3,	4.2	3
15	Clinical Impact of Autologous Cell Therapy on Hypoplastic Left Heart Syndrome After Bidirectional Cavopulmonary Anastomosis. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , <b>2021</b> , 33, 791-801	1.7	3
14	Quantification of Etoposide Hypersensitivity: A Sensitive, Functional Method for Assessing Pluripotent Stem Cell Quality. <i>Stem Cells Translational Medicine</i> , <b>2017</b> , 6, 1829-1839	6.9	2
13	Studying treatment resistance in depression using patient derived neurons in vitro. <i>Molecular Psychiatry</i> , <b>2019</b> , 24, 775-775	15.1	1
12	Mapping transcriptome profiles of in vitro iPSC-derived cardiac differentiation to in utero heart development. <i>Genomics Data</i> , <b>2016</b> , 7, 129-30		1
11	Impedance of novel therapeutic technologies: the case of stem cells. <i>Clinical and Translational Science</i> , <b>2012</b> , 5, 422-7	4.9	1
10	Chronic cortisol differentially impacts stem cell-derived astrocytes from major depressive disorder patients. <i>Translational Psychiatry</i> , <b>2021</b> , 11, 608	8.6	1

9	From Safety to Benefit in Cell Delivery During Surgical Repair of Ebstein Anomaly: Initial Results. <i>Annals of Thoracic Surgery</i> , <b>2021</b> ,	2.7	1
8	Cone Reconstruction for Ebstein Anomaly: Ventricular Remodeling and Preliminary Impact of Stem Cell Therapy. <i>Mayo Clinic Proceedings</i> , <b>2021</b> , 96, 3053-3061	6.4	1
7	Identifying gaps in parental support for families of children with hypoplastic left heart syndrome. <i>Cardiology in the Young</i> , <b>2021</b> , 1-8	1	0
6	Heart Regeneration: The Developmental and Stem Cell Biology Approach <b>2014</b> , 457-477		
5	Regenerative Chimerism Bioengineered Through Stem Cell Reprogramming <b>2011</b> , 445-468		
4	Regenerative Chimerism Bioengineered Through Stem Cell Reprogramming <b>2016</b> , 41-64		
3	Induced Pluripotent Cells for Myocardial Infarction Repair <b>2011</b> , 263-280		
2	Regenerative Chimerism Bioengineered Through Stem Cell Reprogramming <b>2013</b> , 505-528		
1	Regenerative medicine - From stem cell biology to clinical trials for pediatric heart failure. <i>Progress in Pediatric Cardiology</i> , <b>2016</b> , 43, 87-89	0.4	