Helen Blau

List of Publications by Year in Descending Order

91 papers	16,060 citations	45 h-index	99 g-index
99 ext. papers	19,308 ext. citations	20.4 avg, IF	6.83 L-index

#	Paper	IF	Citations
91	Tamoxifen treatment ameliorates contractile dysfunction of Duchenne muscular dystrophy stem cell-derived cardiomyocytes on bioengineered substrates.. *Npj Regenerative Medicine*, **2022**, 7, 19	15.8	1
90	Primary cilia on muscle stem cells are critical to maintain regenerative capacity and are lost during aging.. *Nature Communications*, **2022**, 13, 1439	17.4	1
89	Single-Cell Tracking By Time Lapse Imaging Confirms Thrombopoietin Promotes Megakaryocytic-Erythroid Progenitor Self Renewal, but Does Not Instruct Lineage Commitment. *Blood*, **2021**, 138, 3270-3270	2.2	0
88	AP-1 is a temporally regulated dual gatekeeper of reprogramming to pluripotency. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
87	Inhibition of prostaglandin-degrading enzyme 15-PGDH rejuvenates aged muscle mass and strength. *Science*, **2021**, 371,	33.3	36
86	Biophysical matrix cues from the regenerating niche direct muscle stem cell fate in engineered microenvironments. *Biomaterials*, **2021**, 275, 120973	15.6	4
85	Increased tissue stiffness triggers contractile dysfunction and telomere shortening in dystrophic cardiomyocytes. *Stem Cell Reports*, **2021**, 16, 2169-2181	8	6
84	Reversing aging for heart repair. *Science*, **2021**, 373, 1439-1440	33.3	2
83	Farewell to Professor David Yaffe - A pillar of the myogenesis field. *European Journal of Translational Myology*, **2020**, 30, 9306	2.1	1
82	Adult stem cells and regenerative medicine-a symposium report. *Annals of the New York Academy of Sciences*, **2020**, 1462, 27-36	6.5	20
81	Tissue Stem Cells: Architects of Their Niches. *Cell Stem Cell*, **2020**, 27, 532-556	18	44
80	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. *European Heart Journal*, **2019**, 40, 3685-3695	9.5	45
79	Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function. *Cell Reports*, **2019**, 27, 3939-3955.e6	10.6	46
78	Stem Cells in the Treatment of Disease. *New England Journal of Medicine*, **2019**, 380, 1748-1760	59.2	101
77	A Human iPSC Double-Reporter System Enables Purification of Cardiac Lineage Subpopulations with Distinct Function and Drug Response Profiles. *Cell Stem Cell*, **2019**, 24, 802-811.e5	18	64
76	Developing Single Cell Live Imaging Strategies to Determine MEP Fate and Predict Potential. *Blood*, **2019**, 134, 1190-1190	2.2	
75	Humanizing the mdx mouse model of DMD: the long and the short of it. *Npj Regenerative Medicine*, **2018**, 3, 4	15.8	52

74	Induction of muscle stem cell quiescence by the secreted niche factor Oncostatin M. *Nature Communications*, **2018**, 9, 1531	17.4	49
73	Short telomeres - A hallmark of heritable cardiomyopathies. *Differentiation*, **2018**, 100, 31-36	3.5	9
72	Muscling toward therapy with ERBB3 and NGFR. *Nature Cell Biology*, **2018**, 20, 6-7	23.4	1
71	NKX3-1 is required for induced pluripotent stem cell reprogramming and can replace OCT4 in mouse and human iPSC induction. *Nature Cell Biology*, **2018**, 20, 900-908	23.4	26
70	A robust Pax7EGFP mouse that enables the visualization of dynamic behaviors of muscle stem cells. *Skeletal Muscle*, **2018**, 8, 27	5.1	13
69	Macrophages rescue injured engineered muscle. *Nature Biomedical Engineering*, **2018**, 2, 890-891	19	1
68	Engineered DNA plasmid reduces immunity to dystrophin while improving muscle force in a model of gene therapy of Duchenne dystrophy. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E9182-E9191	11.5	14
67	Telomere shortening is a hallmark of genetic cardiomyopathies. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9276-9281	11.5	30
66	Bioengineering strategies to accelerate stem cell therapeutics. *Nature*, **2018**, 557, 335-342	50.4	222
65	Dermatologist-level classification of skin cancer with deep neural networks. *Nature*, **2017**, 542, 115-118	50.4	5142
64	High-resolution myogenic lineage mapping by single-cell mass cytometry. *Nature Cell Biology*, **2017**, 19, 558-567	23.4	79
63	Prostaglandin E2 is essential for efficacious skeletal muscle stem-cell function, augmenting regeneration and strength. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 6675-6684	11.5	94
62	An objective comparison of cell-tracking algorithms. *Nature Methods*, **2017**, 14, 1141-1152	21.6	242
61	Injectable biomimetic liquid crystalline scaffolds enhance muscle stem cell transplantation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E7919-E7928	11.5	59
60	Discovery of novel determinants of endothelial lineage using chimeric heterokaryons. *ELife*, **2017**, 6,	8.9	4
59	Telomere shortening and metabolic compromise underlie dystrophic cardiomyopathy. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 13120-13125	11.5	42
58	Human induced pluripotent stem cell-derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity. *Nature Medicine*, **2016**, 22, 547-56	50.5	425
57	Noninvasive Tracking of Quiescent and Activated Muscle Stem Cell (MuSC) Engraftment Dynamics In Vivo. *Methods in Molecular Biology*, **2016**, 1460, 181-9	1.4	2

56	The central role of muscle stem cells in regenerative failure with aging. *Nature Medicine*, **2015**, 21, 854-62	30.5	247
55	Turning terminally differentiated skeletal muscle cells into regenerative progenitors. *Nature Communications*, **2015**, 6, 7916	17.4	34
54	Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice. *PLoS ONE*, **2015**, 10, e0131722	3.7	16
53	Direct evaluation of myocardial viability and stem cell engraftment demonstrates salvage of the injured myocardium. *Circulation Research*, **2015**, 116, e40-50	15.7	43
52	Transient delivery of modified mRNA encoding TERT rapidly extends telomeres in human cells. *FASEB Journal*, **2015**, 29, 1930-9	0.9	66
51	Rejuvenation of the muscle stem cell population restores strength to injured aged muscles. *Nature Medicine*, **2014**, 20, 255-64	50.5	439
50	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. *Nature Methods*, **2014**, 11, 572-8	21.6	141
49	Objective comparison of particle tracking methods. *Nature Methods*, **2014**, 11, 281-9	21.6	571
48	Sir John Gurdon: father of nuclear reprogramming. *Differentiation*, **2014**, 88, 10-12	3.5	6
47	Perspective for special Gurdon issue for differentiation: can cell fusion inform nuclear reprogramming?. *Differentiation*, **2014**, 88, 27-28	3.5	2
46	Role of telomere dysfunction in cardiac failure in Duchenne muscular dystrophy. *Nature Cell Biology* , **2013**, 15, 895-904	23.4	96
45	Early role for IL-6 signalling during generation of induced pluripotent stem cells revealed by heterokaryon RNA-Seq. *Nature Cell Biology*, **2013**, 15, 1244-52	23.4	69
44	Redefining differentiation: Reshaping our ends. *Nature Cell Biology*, **2012**, 14, 558	23.4	0
43	Star Polymer Nanoparticles: Nanogel Star Polymer Architectures: A Nanoparticle Platform for Modular Programmable Macromolecular Self-Assembly, Intercellular Transport, and Dual-Mode Cargo Delivery (Adv. Mater. 39/2011). *Advanced Materials*, **2011**, 23, 4464-4464	24	
42	Re"evolutionary" regenerative medicine. *JAMA - Journal of the American Medical Association*, **2011**, 305, 87-8	27.4	21
41	Reprogramming towards pluripotency requires AID-dependent DNA demethylation. *Nature*, **2010**, 463, 1042-7	50.4	564
40	Short telomeres and stem cell exhaustion model Duchenne muscular dystrophy in mdx/mTR mice. *Cell*, **2010**, 143, 1059-71	56.2	351
39	Substrate elasticity regulates skeletal muscle stem cell self-renewal in culture. *Science*, **2010**, 329, 1078-81	33.3	1161

38	Nuclear reprogramming in heterokaryons is rapid, extensive, and bidirectional. *FASEB Journal*, **2009**, 23, 1431-40	0.9	41
37	A home away from home: challenges and opportunities in engineering in vitro muscle satellite cell niches. *Differentiation*, **2009**, 78, 185-94	3.5	98
36	Single Cell Phospho-Flow Analysis of Cytokine Stimulation in Human Hematopoietic Progenitors Reveals That G-CSF Acts Directly On Human Hematopoietic Stem Cells.. *Blood*, **2009**, 114, 3617-3617	2.2	
35	Self-renewal and expansion of single transplanted muscle stem cells. *Nature*, **2008**, 456, 502-6	50.4	639
34	Cell therapies for muscular dystrophy. *New England Journal of Medicine*, **2008**, 359, 1403-5	59.2	25
33	Anne McLaren (1927-2007). *Differentiation*, **2007**, 75, 899-901	3.5	
32	A universal technology for monitoring G-protein-coupled receptor activation in vitro and noninvasively in live animals. *FASEB Journal*, **2007**, 21, 3819-26	0.9	34
31	A novel enzyme complementation-based assay for monitoring G-protein-coupled receptor internalization. *FASEB Journal*, **2007**, 21, 3827-34	0.9	31
30	A brief history of RNAi: the silence of the genes. *FASEB Journal*, **2006**, 20, 1293-9	0.9	161
29	Microenvironmental VEGF distribution is critical for stable and functional vessel growth in ischemia. *FASEB Journal*, **2006**, 20, 2657-9	0.9	110
28	Optimizing techniques for tracking transplanted stem cells in vivo. *Stem Cells*, **2005**, 23, 1251-65	5.8	107
27	Myoblast-mediated gene transfer for therapeutic angiogenesis and arteriogenesis. *British Journal of Pharmacology*, **2003**, 140, 620-6	8.6	29
26	Significant differences among skeletal muscles in the incorporation of bone marrow-derived cells. *Developmental Biology*, **2003**, 262, 64-74	3.1	83
25	Transient production of alpha-smooth muscle actin by skeletal myoblasts during differentiation in culture and following intramuscular implantation. *Cytoskeleton*, **2002**, 51, 177-86		39
24	The evolving concept of a stem cell: entity or function?. *Cell*, **2001**, 105, 829-41	56.2	888
23	Induction of angiogenesis by implantation of encapsulated primary myoblasts expressing vascular endothelial growth factor. *Journal of Gene Medicine*, **2000**, 2, 279-88	3.5	46
22	Epidermal growth factor receptor dimerization monitored in live cells. *Nature Biotechnology*, **2000**, 18, 218-22	44.5	85
21	Tet B or not tet B: advances in tetracycline-inducible gene expression. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 797-9	11.5	104

20	Regulating the Regulators. *Nature Biotechnology*, **1999**, 17, 20-20	44.5	
19	Inhibition of solid tumor growth by Fas ligand-expressing myoblasts. *Somatic Cell and Molecular Genetics*, **1998**, 24, 281-9		4
18	Expression of Bcl-XS alters cytokinetics and decreases clonogenic survival in K12 rat colon carcinoma cells. *Oncogene*, **1998**, 17, 2981-91	9.2	10
17	Tetracycline-regulatable factors with distinct dimerization domains allow reversible growth inhibition by p16. *Nature Genetics*, **1998**, 20, 389-93	36.3	107
16	Fusion competence of myoblasts rendered genetically null for N-cadherin in culture. *Journal of Cell Biology*, **1997**, 138, 331-6	7.3	75
15	The fate of individual myoblasts after transplantation into muscles of DMD patients. *Nature Medicine*, **1997**, 3, 970-7	50.5	270
14	High-efficiency retroviral infection of primary myoblasts. *Somatic Cell and Molecular Genetics*, **1997**, 23, 203-9		74
13	Death of solid tumor cells induced by Fas ligand expressing primary myoblasts. *Somatic Cell and Molecular Genetics*, **1997**, 23, 249-57		11
12	A method to codetect introduced genes and their products in gene therapy protocols. *Nature Biotechnology*, **1996**, 14, 1012-6	44.5	47
11	Primary mouse myoblast purification, characterization, and transplantation for cell-mediated gene therapy. *Journal of Cell Biology*, **1994**, 125, 1275-87	7.3	814
10	Differentiation requires continuous active control. *Annual Review of Biochemistry*, **1992**, 61, 1213-30	29.1	133
9	Normal dystrophin transcripts detected in Duchenne muscular dystrophy patients after myoblast transplantation. *Nature*, **1992**, 356, 435-8	50.4	363
8	Myoblast transfer in DMD: problems in the interpretation of efficiency. *Muscle and Nerve*, **1992**, 15, 1209-10	3.4	21
7	Regulating the myogenic regulators. *Symposia of the Society for Experimental Biology*, **1992**, 46, 9-18		1
6	Differentiation requires continuous regulation. *Journal of Cell Biology*, **1991**, 112, 781-3	7.3	235
5	Effect of cell history on response to helix-loop-helix family of myogenic regulators. *Nature*, **1990**, 344, 454-8	50.4	155
4	Migration of myoblasts across basal lamina during skeletal muscle development. *Nature*, **1990**, 345, 350-3	50.4	176
3	Cell lineage in vertebrate development. *Current Opinion in Cell Biology*, **1990**, 2, 981-5	9	8

2	Localization of muscle gene products in nuclear domains. *Nature*, **1989**, 337, 570-3	50.4	269
1	Differential patterns of transcript accumulation during human myogenesis. *Molecular and Cellular Biology*, **1987**, 7, 4100-4114	4.8	55