

Helen Blau

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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	Dermatologist-level classification of skin cancer with deep neural networks. <i>Nature</i> , 2017 , 542, 115-118	50.4	5142
90	Substrate elasticity regulates skeletal muscle stem cell self-renewal in culture. <i>Science</i> , 2010 , 329, 1078-81	31.3	1161
89	The evolving concept of a stem cell: entity or function?. <i>Cell</i> , 2001 , 105, 829-41	56.2	888
88	Primary mouse myoblast purification, characterization, and transplantation for cell-mediated gene therapy. <i>Journal of Cell Biology</i> , 1994 , 125, 1275-87	7.3	814
87	Self-renewal and expansion of single transplanted muscle stem cells. <i>Nature</i> , 2008 , 456, 502-6	50.4	639
86	Objective comparison of particle tracking methods. <i>Nature Methods</i> , 2014 , 11, 281-9	21.6	571
85	Reprogramming towards pluripotency requires AID-dependent DNA demethylation. <i>Nature</i> , 2010 , 463, 1042-7	50.4	564
84	Rejuvenation of the muscle stem cell population restores strength to injured aged muscles. <i>Nature Medicine</i> , 2014 , 20, 255-64	50.5	439
83	Human induced pluripotent stem cell-derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity. <i>Nature Medicine</i> , 2016 , 22, 547-56	50.5	425
82	Normal dystrophin transcripts detected in Duchenne muscular dystrophy patients after myoblast transplantation. <i>Nature</i> , 1992 , 356, 435-8	50.4	363
81	Short telomeres and stem cell exhaustion model Duchenne muscular dystrophy in mdx/mTR mice. <i>Cell</i> , 2010 , 143, 1059-71	56.2	351
80	The fate of individual myoblasts after transplantation into muscles of DMD patients. <i>Nature Medicine</i> , 1997 , 3, 970-7	50.5	270
79	Localization of muscle gene products in nuclear domains. <i>Nature</i> , 1989 , 337, 570-3	50.4	269
78	The central role of muscle stem cells in regenerative failure with aging. <i>Nature Medicine</i> , 2015 , 21, 854-63	30.5	247
77	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017 , 14, 1141-1152	21.6	242
76	Differentiation requires continuous regulation. <i>Journal of Cell Biology</i> , 1991 , 112, 781-3	7.3	235
75	Bioengineering strategies to accelerate stem cell therapeutics. <i>Nature</i> , 2018 , 557, 335-342	50.4	222

74	Migration of myoblasts across basal lamina during skeletal muscle development. <i>Nature</i> , 1990 , 345, 350-3	30.4	176
73	A brief history of RNAi: the silence of the genes. <i>FASEB Journal</i> , 2006 , 20, 1293-9	0.9	161
72	Effect of cell history on response to helix-loop-helix family of myogenic regulators. <i>Nature</i> , 1990 , 344, 454-8	50.4	155
71	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. <i>Nature Methods</i> , 2014 , 11, 572-8	21.6	141
70	Differentiation requires continuous active control. <i>Annual Review of Biochemistry</i> , 1992 , 61, 1213-30	29.1	133
69	Microenvironmental VEGF distribution is critical for stable and functional vessel growth in ischemia. <i>FASEB Journal</i> , 2006 , 20, 2657-9	0.9	110
68	Tetracycline-regulatable factors with distinct dimerization domains allow reversible growth inhibition by p16. <i>Nature Genetics</i> , 1998 , 20, 389-93	36.3	107
67	Optimizing techniques for tracking transplanted stem cells in vivo. <i>Stem Cells</i> , 2005 , 23, 1251-65	5.8	107
66	Tet B or not tet B: advances in tetracycline-inducible gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 797-9	11.5	104
65	Stem Cells in the Treatment of Disease. <i>New England Journal of Medicine</i> , 2019 , 380, 1748-1760	59.2	101
64	A home away from home: challenges and opportunities in engineering in vitro muscle satellite cell niches. <i>Differentiation</i> , 2009 , 78, 185-94	3.5	98
63	Role of telomere dysfunction in cardiac failure in Duchenne muscular dystrophy. <i>Nature Cell Biology</i> , 2013 , 15, 895-904	23.4	96
62	Prostaglandin E2 is essential for efficacious skeletal muscle stem-cell function, augmenting regeneration and strength. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6675-6684	11.5	94
61	Epidermal growth factor receptor dimerization monitored in live cells. <i>Nature Biotechnology</i> , 2000 , 18, 218-22	44.5	85
60	Significant differences among skeletal muscles in the incorporation of bone marrow-derived cells. <i>Developmental Biology</i> , 2003 , 262, 64-74	3.1	83
59	High-resolution myogenic lineage mapping by single-cell mass cytometry. <i>Nature Cell Biology</i> , 2017 , 19, 558-567	23.4	79
58	Fusion competence of myoblasts rendered genetically null for N-cadherin in culture. <i>Journal of Cell Biology</i> , 1997 , 138, 331-6	7.3	75
57	High-efficiency retroviral infection of primary myoblasts. <i>Somatic Cell and Molecular Genetics</i> , 1997 , 23, 203-9		74

56	Early role for IL-6 signalling during generation of induced pluripotent stem cells revealed by heterokaryon RNA-Seq. <i>Nature Cell Biology</i> , 2013 , 15, 1244-52	23.4	69
55	Transient delivery of modified mRNA encoding TERT rapidly extends telomeres in human cells. <i>FASEB Journal</i> , 2015 , 29, 1930-9	0.9	66
54	A Human iPSC Double-Reporter System Enables Purification of Cardiac Lineage Subpopulations with Distinct Function and Drug Response Profiles. <i>Cell Stem Cell</i> , 2019 , 24, 802-811.e5	18	64
53	Injectable biomimetic liquid crystalline scaffolds enhance muscle stem cell transplantation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7919-E7928	11.5	59
52	Differential patterns of transcript accumulation during human myogenesis. <i>Molecular and Cellular Biology</i> , 1987 , 7, 4100-4114	4.8	55
51	Humanizing the mdx mouse model of DMD: the long and the short of it. <i>Npj Regenerative Medicine</i> , 2018 , 3, 4	15.8	52
50	Induction of muscle stem cell quiescence by the secreted niche factor Oncostatin M. <i>Nature Communications</i> , 2018 , 9, 1531	17.4	49
49	A method to codetect introduced genes and their products in gene therapy protocols. <i>Nature Biotechnology</i> , 1996 , 14, 1012-6	44.5	47
48	Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function. <i>Cell Reports</i> , 2019 , 27, 3939-3955.e6	10.6	46
47	Induction of angiogenesis by implantation of encapsulated primary myoblasts expressing vascular endothelial growth factor. <i>Journal of Gene Medicine</i> , 2000 , 2, 279-88	3.5	46
46	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. <i>European Heart Journal</i> , 2019 , 40, 3685-3695	9.5	45
45	Tissue Stem Cells: Architects of Their Niches. <i>Cell Stem Cell</i> , 2020 , 27, 532-556	18	44
44	Direct evaluation of myocardial viability and stem cell engraftment demonstrates salvage of the injured myocardium. <i>Circulation Research</i> , 2015 , 116, e40-50	15.7	43
43	Telomere shortening and metabolic compromise underlie dystrophic cardiomyopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13120-13125	11.5	42
42	Nuclear reprogramming in heterokaryons is rapid, extensive, and bidirectional. <i>FASEB Journal</i> , 2009 , 23, 1431-40	0.9	41
41	Transient production of alpha-smooth muscle actin by skeletal myoblasts during differentiation in culture and following intramuscular implantation. <i>Cytoskeleton</i> , 2002 , 51, 177-86		39
40	Inhibition of prostaglandin-degrading enzyme 15-PGDH rejuvenates aged muscle mass and strength. <i>Science</i> , 2021 , 371,	33.3	36
39	Turning terminally differentiated skeletal muscle cells into regenerative progenitors. <i>Nature Communications</i> , 2015 , 6, 7916	17.4	34

38	A universal technology for monitoring G-protein-coupled receptor activation in vitro and noninvasively in live animals. <i>FASEB Journal</i> , 2007 , 21, 3819-26	0.9	34
37	A novel enzyme complementation-based assay for monitoring G-protein-coupled receptor internalization. <i>FASEB Journal</i> , 2007 , 21, 3827-34	0.9	31
36	Telomere shortening is a hallmark of genetic cardiomyopathies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9276-9281	11.5	30
35	Myoblast-mediated gene transfer for therapeutic angiogenesis and arteriogenesis. <i>British Journal of Pharmacology</i> , 2003 , 140, 620-6	8.6	29
34	NKX3-1 is required for induced pluripotent stem cell reprogramming and can replace OCT4 in mouse and human iPSC induction. <i>Nature Cell Biology</i> , 2018 , 20, 900-908	23.4	26
33	Cell therapies for muscular dystrophy. <i>New England Journal of Medicine</i> , 2008 , 359, 1403-5	59.2	25
32	Re"evolutionary" regenerative medicine. <i>JAMA - Journal of the American Medical Association</i> , 2011 , 305, 87-8	27.4	21
31	Myoblast transfer in DMD: problems in the interpretation of efficiency. <i>Muscle and Nerve</i> , 1992 , 15, 1209-10	3.1	21
30	Adult stem cells and regenerative medicine-a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020 , 1462, 27-36	6.5	20
29	Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice. <i>PLoS ONE</i> , 2015 , 10, e0131722	3.7	16
28	Engineered DNA plasmid reduces immunity to dystrophin while improving muscle force in a model of gene therapy of Duchenne dystrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E9182-E9191	11.5	14
27	A robust Pax7EGFP mouse that enables the visualization of dynamic behaviors of muscle stem cells. <i>Skeletal Muscle</i> , 2018 , 8, 27	5.1	13
26	Death of solid tumor cells induced by Fas ligand expressing primary myoblasts. <i>Somatic Cell and Molecular Genetics</i> , 1997 , 23, 249-57		11
25	Expression of Bcl-XS alters cytokinetics and decreases clonogenic survival in K12 rat colon carcinoma cells. <i>Oncogene</i> , 1998 , 17, 2981-91	9.2	10
24	Short telomeres - A hallmark of heritable cardiomyopathies. <i>Differentiation</i> , 2018 , 100, 31-36	3.5	9
23	Cell lineage in vertebrate development. <i>Current Opinion in Cell Biology</i> , 1990 , 2, 981-5	9	8
22	Sir John Gurdon: father of nuclear reprogramming. <i>Differentiation</i> , 2014 , 88, 10-12	3.5	6
21	Increased tissue stiffness triggers contractile dysfunction and telomere shortening in dystrophic cardiomyocytes. <i>Stem Cell Reports</i> , 2021 , 16, 2169-2181	8	6

20	Inhibition of solid tumor growth by Fas ligand-expressing myoblasts. <i>Somatic Cell and Molecular Genetics</i> , 1998 , 24, 281-9		4
19	Discovery of novel determinants of endothelial lineage using chimeric heterokaryons. <i>ELife</i> , 2017 , 6,	8.9	4
18	Biophysical matrix cues from the regenerating niche direct muscle stem cell fate in engineered microenvironments. <i>Biomaterials</i> , 2021 , 275, 120973	15.6	4
17	AP-1 is a temporally regulated dual gatekeeper of reprogramming to pluripotency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
16	Perspective for special Gurdon issue for differentiation: can cell fusion inform nuclear reprogramming?. <i>Differentiation</i> , 2014 , 88, 27-28	3.5	2
15	Noninvasive Tracking of Quiescent and Activated Muscle Stem Cell (MuSC) Engraftment Dynamics In Vivo. <i>Methods in Molecular Biology</i> , 2016 , 1460, 181-9	1.4	2
14	Reversing aging for heart repair. <i>Science</i> , 2021 , 373, 1439-1440	33.3	2
13	Farewell to Professor David Yaffe - A pillar of the myogenesis field. <i>European Journal of Translational Myology</i> , 2020 , 30, 9306	2.1	1
12	Muscling toward therapy with ERBB3 and NGFR. <i>Nature Cell Biology</i> , 2018 , 20, 6-7	23.4	1
11	Regulating the myogenic regulators. <i>Symposia of the Society for Experimental Biology</i> , 1992 , 46, 9-18		1
10	Macrophages rescue injured engineered muscle. <i>Nature Biomedical Engineering</i> , 2018 , 2, 890-891	19	1
9	Tamoxifen treatment ameliorates contractile dysfunction of Duchenne muscular dystrophy stem cell-derived cardiomyocytes on bioengineered substrates.. <i>Npj Regenerative Medicine</i> , 2022 , 7, 19	15.8	1
8	Primary cilia on muscle stem cells are critical to maintain regenerative capacity and are lost during aging.. <i>Nature Communications</i> , 2022 , 13, 1439	17.4	1
7	Redefining differentiation: Reshaping our ends. <i>Nature Cell Biology</i> , 2012 , 14, 558	23.4	0
6	Single-Cell Tracking By Time Lapse Imaging Confirms Thrombopoietin Promotes Megakaryocytic-Erythroid Progenitor Self Renewal, but Does Not Instruct Lineage Commitment. <i>Blood</i> , 2021 , 138, 3270-3270	2.2	0
5	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). <i>Advanced Materials</i> , 2011 , 23, 4464-4464	24	
4	Anne McLaren (1927-2007). <i>Differentiation</i> , 2007 , 75, 899-901	3.5	
3	Regulating the Regulators. <i>Nature Biotechnology</i> , 1999 , 17, 20-20	44.5	

- 2 Developing Single Cell Live Imaging Strategies to Determine MEP Fate and Predict Potential. *Blood*, **2019**, 134, 1190-1190 2.2
- 1 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