

Helen Blau

List of Publications by Year in descending order

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92
papers

21,852
citations

43973

48
h-index

48187

88
g-index

99
all docs

99
docs citations

99
times ranked

29746
citing authors

#	ARTICLE	IF	CITATIONS
1	Dermatologist-level classification of skin cancer with deep neural networks. <i>Nature</i> , 2017, 542, 115-118.	13.7	8,203
2	Substrate Elasticity Regulates Skeletal Muscle Stem Cell Self-Renewal in Culture. <i>Science</i> , 2010, 329, 1078-1081.	6.0	1,385
3	The Evolving Concept of a Stem Cell. <i>Cell</i> , 2001, 105, 829-841.	13.5	1,031
4	Primary mouse myoblast purification, characterization, and transplantation for cell-mediated gene therapy. <i>Journal of Cell Biology</i> , 1994, 125, 1275-1287.	2.3	901
5	Objective comparison of particle tracking methods. <i>Nature Methods</i> , 2014, 11, 281-289.	9.0	805
6	Self-renewal and expansion of single transplanted muscle stem cells. <i>Nature</i> , 2008, 456, 502-506.	13.7	760
7	Reprogramming towards pluripotency requires AID-dependent DNA demethylation. <i>Nature</i> , 2010, 463, 1042-1047.	13.7	620
8	Human induced pluripotent stem cell-derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity. <i>Nature Medicine</i> , 2016, 22, 547-556.	15.2	573
9	Rejuvenation of the muscle stem cell population restores strength to injured aged muscles. <i>Nature Medicine</i> , 2014, 20, 255-264.	15.2	545
10	Short Telomeres and Stem Cell Exhaustion Model Duchenne Muscular Dystrophy in mdx/mTR Mice. <i>Cell</i> , 2010, 143, 1059-1071.	13.5	428
11	Normal dystrophin transcripts detected in Duchenne muscular dystrophy patients after myoblast transplantation. <i>Nature</i> , 1992, 356, 435-438.	13.7	406
12	An objective comparison of cell-tracking algorithms. <i>Nature Methods</i> , 2017, 14, 1141-1152.	9.0	399
13	The central role of muscle stem cells in regenerative failure with aging. <i>Nature Medicine</i> , 2015, 21, 854-862.	15.2	340
14	Bioengineering strategies to accelerate stem cell therapeutics. <i>Nature</i> , 2018, 557, 335-342.	13.7	316
15	Localization of muscle gene products in nuclear domains. <i>Nature</i> , 1989, 337, 570-573.	13.7	300
16	The fate of individual myoblasts after transplantation into muscles of DMD patients. <i>Nature Medicine</i> , 1997, 3, 970-977.	15.2	296
17	Differentiation requires continuous regulation. <i>Journal of Cell Biology</i> , 1991, 112, 781-783.	2.3	265
18	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. <i>Nature Methods</i> , 2014, 11, 572-578.	9.0	196

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19	Migration of myoblasts across basal lamina during skeletal muscle development. <i>Nature</i> , 1990, 345, 350-353.	13.7	194
20	A brief history of RNAi: the silence of the genes. <i>FASEB Journal</i> , 2006, 20, 1293-1299.	0.2	191
21	Effect of cell history on response to helix-loop-helix family of myogenic regulators. <i>Nature</i> , 1990, 344, 454-458.	13.7	163
22	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.	3.3	160
23	Differentiation Requires Continuous Active Control. <i>Annual Review of Biochemistry</i> , 1992, 61, 1213-1230.	5.0	152
24	Stem Cells in the Treatment of Disease. <i>New England Journal of Medicine</i> , 2019, 380, 1748-1760.	13.9	152
25	Tissue Stem Cells: Architects of Their Niches. <i>Cell Stem Cell</i> , 2020, 27, 532-556.	5.2	137
26	Optimizing Techniques for Tracking Transplanted Stem Cells In Vivo. <i>Stem Cells</i> , 2005, 23, 1251-1265.	1.4	120
27	Tetracycline-regulatable factors with distinct dimerization domains allow reversible growth inhibition by p16. <i>Nature Genetics</i> , 1998, 20, 389-393.	9.4	117
28	Microenvironmental VEGF distribution is critical for stable and functional vessel growth in ischemia. <i>FASEB Journal</i> , 2006, 20, 2657-2659.	0.2	117
29	A home away from home: Challenges and opportunities in engineering in vitro muscle satellite cell niches. <i>Differentiation</i> , 2009, 78, 185-194.	1.0	115
30	Role of telomere dysfunction in cardiac failure in Duchenne muscular dystrophy. <i>Nature Cell Biology</i> , 2013, 15, 895-904.	4.6	114
31	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, 797-799.	3.3	111
32	High-resolution myogenic lineage mapping by single-cell mass cytometry. <i>Nature Cell Biology</i> , 2017, 19, 558-567.	4.6	108
33	Inhibition of prostaglandin-degrading enzyme 15-PGDH rejuvenates aged muscle mass and strength. <i>Science</i> , 2021, 371, .	6.0	107
34	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.	5.2	102
35	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. <i>European Heart Journal</i> , 2019, 40, 3685-3695.	1.0	100
36	Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function. <i>Cell Reports</i> , 2019, 27, 3939-3955.e6.	2.9	94

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37	Epidermal growth factor receptor dimerization monitored in live cells. <i>Nature Biotechnology</i> , 2000, 18, 218-222.	9.4	90
38	Significant differences among skeletal muscles in the incorporation of bone marrow-derived cells. <i>Developmental Biology</i> , 2003, 262, 64-74.	0.9	90
39	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, 1244-1252.	4.6	88
40	Humanizing the mdx mouse model of DMD: the long and the short of it. <i>Npj Regenerative Medicine</i> , 2018, 3, 4.	2.5	87
41	Transient delivery of modified mRNA encoding TERT rapidly extends telomeres in human cells. <i>FASEB Journal</i> , 2015, 29, 1930-1939.	0.2	85
42	Fusion Competence of Myoblasts Rendered Genetically Null for N-Cadherin in Culture. <i>Journal of Cell Biology</i> , 1997, 138, 331-336.	2.3	81
43	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.	3.3	81
44	High-efficiency retroviral infection of primary myoblasts. <i>Somatic Cell and Molecular Genetics</i> , 1997, 23, 203-209.	0.7	78
45	Induction of muscle stem cell quiescence by the secreted niche factor Oncostatin M. <i>Nature Communications</i> , 2018, 9, 1531.	5.8	73
46	Differential Patterns of Transcript Accumulation during Human Myogenesis. <i>Molecular and Cellular Biology</i> , 1987, 7, 4100-4114.	1.1	61
47	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.	3.3	60
48	A method to codetect introduced genes and their products in gene therapy protocols. <i>Nature Biotechnology</i> , 1996, 14, 1012-1016.	9.4	51
49	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.	3.3	51
50	Direct Evaluation of Myocardial Viability and Stem Cell Engraftment Demonstrates Salvage of the Injured Myocardium. <i>Circulation Research</i> , 2015, 116, e40-50.	2.0	49
51	Induction of angiogenesis by implantation of encapsulated primary myoblasts expressing vascular endothelial growth factor. <i>Journal of Gene Medicine</i> , 2000, 2, 279-288.	1.4	48
52	Transient production of α -smooth muscle actin by skeletal myoblasts during differentiation in culture and following intramuscular implantation. <i>Cytoskeleton</i> , 2002, 51, 177-186.	4.4	45
53	Nuclear reprogramming in heterokaryons is rapid, extensive, and bidirectional. <i>FASEB Journal</i> , 2009, 23, 1431-1440.	0.2	45
54	Adult stem cells and regenerative medicine—a symposium report. <i>Annals of the New York Academy of Sciences</i> , 2020, 1462, 27-36.	1.8	43

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55	Turning terminally differentiated skeletal muscle cells into regenerative progenitors. <i>Nature Communications</i> , 2015, 6, 7916.	5.8	41
56	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.	4.6	37
57	A universal technology for monitoring G-protein-coupled receptor activation <i>in vitro</i> and noninvasively in live animals. <i>FASEB Journal</i> , 2007, 21, 3819-3826.	0.2	36
58	A novel enzyme complementation-based assay for monitoring G-protein-coupled receptor internalization. <i>FASEB Journal</i> , 2007, 21, 3827-3834.	0.2	35
59	Primary cilia on muscle stem cells are critical to maintain regenerative capacity and are lost during aging. <i>Nature Communications</i> , 2022, 13, 1439.	5.8	35
60	Myoblast-mediated gene transfer for therapeutic angiogenesis and arteriogenesis. <i>British Journal of Pharmacology</i> , 2003, 140, 620-626.	2.7	33
61	Letters to the editor. <i>Muscle and Nerve</i> , 1992, 15, 1209-1215.	1.0	28
62	Cell Therapies for Muscular Dystrophy. <i>New England Journal of Medicine</i> , 2008, 359, 1403-1405.	13.9	28
63	Increased tissue stiffness triggers contractile dysfunction and telomere shortening in dystrophic cardiomyocytes. <i>Stem Cell Reports</i> , 2021, 16, 2169-2181.	2.3	23
64	Re-evolutionary Regenerative Medicine. <i>JAMA - Journal of the American Medical Association</i> , 2011, 305, 87.	3.8	22
65	A robust Pax7EGFP mouse that enables the visualization of dynamic behaviors of muscle stem cells. <i>Skeletal Muscle</i> , 2018, 8, 27.	1.9	22
66	Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice. <i>PLoS ONE</i> , 2015, 10, e0131722.	1.1	21
67	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, .	3.3	19
68	Biophysical matrix cues from the regenerating niche direct muscle stem cell fate in engineered microenvironments. <i>Biomaterials</i> , 2021, 275, 120973.	5.7	18
69	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.	3.3	17
70	Death of solid tumor cells induced by fas ligand expressing primary myoblasts. <i>Somatic Cell and Molecular Genetics</i> , 1997, 23, 249-257.	0.7	15
71	Short telomeres – A hallmark of heritable cardiomyopathies. <i>Differentiation</i> , 2018, 100, 31-36.	1.0	12
72	Expression of Bcl-XS alters cytokinetics and decreases clonogenic survival in K12 rat colon carcinoma cells. <i>Oncogene</i> , 1998, 17, 2981-2991.	2.6	10

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73	Cell lineage in vertebrate development. <i>Current Opinion in Cell Biology</i> , 1990, 2, 981-985.	2.6	9
74	Sir John Gurdon: Father of nuclear reprogramming. <i>Differentiation</i> , 2014, 88, 10-12.	1.0	7
75	Discovery of novel determinants of endothelial lineage using chimeric heterokaryons. <i>ELife</i> , 2017, 6, .	2.8	7
76	Tamoxifen treatment ameliorates contractile dysfunction of Duchenne muscular dystrophy stem cell-derived cardiomyocytes on bioengineered substrates. <i>Npj Regenerative Medicine</i> , 2022, 7, 19.	2.5	7
77	Reversing aging for heart repair. <i>Science</i> , 2021, 373, 1439-1440.	6.0	6
78	Inhibition of Solid Tumor Growth by Fas Ligand-Expressing Myoblasts. <i>Somatic Cell and Molecular Genetics</i> , 1998, 24, 281-289.	0.7	4
79	How cells know their place. <i>Nature</i> , 1992, 358, 284-285.	13.7	3
80	Muscling toward therapy with ERBB3 and NGFR. <i>Nature Cell Biology</i> , 2018, 20, 6-7.	4.6	3
81	Farewell to Professor David Yaffe – A Pillar of the Myogenesis Field. <i>European Journal of Translational Myology</i> , 2020, 30, 9306.	0.8	3
82	Perspective for special Gurdon issue for differentiation: Can cell fusion inform nuclear reprogramming?. <i>Differentiation</i> , 2014, 88, 27-28.	1.0	2
83	Noninvasive Tracking of Quiescent and Activated Muscle Stem Cell (MuSC) Engraftment Dynamics In Vivo. <i>Methods in Molecular Biology</i> , 2016, 1460, 181-189.	0.4	2
84	Redefining differentiation: Reshaping our ends. <i>Nature Cell Biology</i> , 2012, 14, 558-558.	4.6	1
85	Macrophages rescue injured engineered muscle. <i>Nature Biomedical Engineering</i> , 2018, 2, 890-891.	11.6	1
86	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.	0.6	1
87	Regulating the myogenic regulators. <i>Symposia of the Society for Experimental Biology</i> , 1992, 46, 9-18.	0.0	1
88	Regulating the Regulators. <i>Nature Biotechnology</i> , 1999, 17, 20-20.	9.4	0
89	Anne McLaren (1927–2007). <i>Differentiation</i> , 2007, 75, 899-901.	1.0	0
90	Star Polymer Nanoparticles: Nanogel Star Polymer Architectures: A Nanoparticle Platform for Modular Programmable Macromolecular Self-Assembly, Intercellular Transport, and Dual-Mode Cargo Delivery (<i>Adv. Mater.</i> 39/2011). <i>Advanced Materials</i> , 2011, 23, 4464-4464.	11.1	0

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91	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.	0.6	0
92	Developing Single Cell Live Imaging Strategies to Determine MEP Fate and Predict Potential. Blood, 2019, 134, 1190-1190.	0.6	0