Helen Blau

List of Publications by Year
in descending order

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	Tamoxifen treatment ameliorates contractile dysfunction of Duchenne muscular dystrophy stem cell-derived cardiomyocytes on bioengineered substrates. Npj Regenerative Medicine, 2022, 7, 19.	2.5	7
2	Primary cilia on muscle stem cells are critical to maintain regenerative capacity and are lost during aging. Nature Communications, 2022, 13, 1439.	5.8	35
3	Inhibition of prostaglandin-degrading enzyme 15-PGDH rejuvenates aged muscle mass and strength. Science, 2021, 371, .	6.0	107
4	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, .	3.3	19
5	Biophysical matrix cues from the regenerating niche direct muscle stem cell fate in engineered microenvironments. Biomaterials, 2021, 275, 120973.	5.7	18
6	Increased tissue stiffness triggers contractile dysfunction and telomere shortening in dystrophic cardiomyocytes. Stem Cell Reports, 2021, 16, 2169-2181.	2.3	23
7	Reversing aging for heart repair. Science, 2021, 373, 1439-1440.	6.0	6
8	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.	0.6	1
9	Adult stem cells and regenerative medicineâ€"a symposium report. Annals of the New York Academy of Sciences, 2020, 1462, 27-36.	1.8	43
10	Tissue Stem Cells: Architects of Their Niches. Cell Stem Cell, 2020, 27, 532-556.	5.2	137
11	Farewell to Professor David Yaffe â€" A Pillar of the Myogenesis Field. European Journal of Translational Myology, 2020, 30, 9306.	0.8	3
12	Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients. European Heart Journal, 2019, 40, 3685-3695.	1.0	100
13	Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function. Cell Reports, 2019, 27, 3939-3955.e6.	2.9	94
14	Stem Cells in the Treatment of Disease. New England Journal of Medicine, 2019, 380, 1748-1760.	13.9	152
15	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.	5.2	102
16	Developing Single Cell Live Imaging Strategies to Determine MEP Fate and Predict Potential. Blood, 2019, 134, 1190-1190.	0.6	0
17	Humanizing the mdx mouse model of DMD: the long and the short of it. Npj Regenerative Medicine, 2018, 3, 4.	2.5	87
18	Induction of muscle stem cell quiescence by the secreted niche factor Oncostatin M. Nature Communications, 2018, 9, 1531.	5.8	73

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19	Short telomeres â€" A hallmark of heritable cardiomyopathies. Differentiation, 2018, 100, 31-36.	1.0	12
20	Muscling toward therapy with ERBB3 and NGFR. Nature Cell Biology, 2018, 20, 6-7.	4.6	3
21	Macrophages rescue injured engineered muscle. Nature Biomedical Engineering, 2018, 2, 890-891.	11.6	1
22	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.	3.3	17
23	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.	3.3	51
24	Bioengineering strategies to accelerate stem cell therapeutics. Nature, 2018, 557, 335-342.	13.7	316
25	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.	4.6	37
26	A robust Pax7EGFP mouse that enables the visualization of dynamic behaviors of muscle stem cells. Skeletal Muscle, 2018, 8, 27.	1.9	22
27	Dermatologist-level classification of skin cancer with deep neural networks. Nature, 2017, 542, 115-118.	13.7	8,203
28	High-resolution myogenic lineage mapping by single-cell mass cytometry. Nature Cell Biology, 2017, 19, 558-567.	4.6	108
29	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.	3.3	160
30	An objective comparison of cell-tracking algorithms. Nature Methods, 2017, 14, 1141-1152.	9.0	399
31	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.	3.3	81
32	Discovery of novel determinants of endothelial lineage using chimeric heterokaryons. ELife, 2017, 6, .	2.8	7
33	Human induced pluripotent stem cellâ€"derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity. Nature Medicine, 2016, 22, 547-556.	15.2	573
34	Noninvasive Tracking of Quiescent and Activated Muscle Stem Cell (MuSC) Engraftment Dynamics In Vivo. Methods in Molecular Biology, 2016, 1460, 181-189.	0.4	2
35	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.	3.3	60
36	Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice. PLoS ONE, 2015, 10, e0131722.	1.1	21

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37	Direct Evaluation of Myocardial Viability and Stem Cell Engraftment Demonstrates Salvage of the Injured Myocardium. Circulation Research, 2015, 116, e40-50.	2.0	49
38	Transient delivery of modified mRNA encoding TERT rapidly extends telomeres in human cells. FASEB Journal, 2015, 29, 1930-1939.	0.2	85
39	The central role of muscle stem cells in regenerative failure with aging. Nature Medicine, 2015, 21, 854-862.	15.2	340
40	Turning terminally differentiated skeletal muscle cells into regenerative progenitors. Nature Communications, 2015, 6, 7916.	5.8	41
41	Perspective for special Gurdon issue for differentiation: Can cell fusion inform nuclear reprogramming?. Differentiation, 2014, 88, 27-28.	1.0	2
42	Rejuvenation of the muscle stem cell population restores strength to injured aged muscles. Nature Medicine, 2014, 20, 255-264.	15.2	545
43	Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein. Nature Methods, 2014, 11, 572-578.	9.0	196
44	Objective comparison of particle tracking methods. Nature Methods, 2014, 11, 281-289.	9.0	805
45	Sir John Gurdon: Father of nuclear reprogramming. Differentiation, 2014, 88, 10-12.	1.0	7
46	Role of telomere dysfunction in cardiac failure in Duchenne muscular dystrophy. Nature Cell Biology, 2013, 15, 895-904.	4.6	114
47	Early role for IL-6 signalling during generation of induced pluripotent stem cells revealed by heterokaryon RNA-Seq. Nature Cell Biology, 2013, 15, 1244-1252.	4.6	88
48	Redefining differentiation: Reshaping our ends. Nature Cell Biology, 2012, 14, 558-558.	4.6	1
49	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.	11.1	0
50	Reâ€œevolutionaryâ€•Regenerative Medicine. JAMA - Journal of the American Medical Association, 2011, 305, 87.	3.8	22
51	Reprogramming towards pluripotency requires AID-dependent DNA demethylation. Nature, 2010, 463, 1042-1047.	13.7	620
52	Short Telomeres and Stem Cell Exhaustion Model Duchenne Muscular Dystrophy in mdx/mTR Mice. Cell, 2010, 143, 1059-1071.	13.5	428
53	Substrate Elasticity Regulates Skeletal Muscle Stem Cell Self-Renewal in Culture. Science, 2010, 329, 1078-1081.	6.0	1,385
54	Nuclear reprogramming in heterokaryons is rapid, extensive, and bidirectional. FASEB Journal, 2009, 23, 1431-1440.	0.2	45

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55	A home away from home: Challenges and opportunities in engineering in vitro muscle satellite cell niches. Differentiation, 2009, 78, 185-194.	1.0	115
56	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
57	Self-renewal and expansion of single transplanted muscle stem cells. Nature, 2008, 456, 502-506.	13.7	760
58	Cell Therapies for Muscular Dystrophy. New England Journal of Medicine, 2008, 359, 1403-1405.	13.9	28
59	A universal technology for monitoring Gâ€proteinâ€coupled receptor activation <i>in vitro</i> and noninvasively in live animals. FASEB Journal, 2007, 21, 3819-3826.	0.2	36
60	A novel enzyme complementationâ€based assay for monitoring Gâ€proteinâ€coupled receptor internalization. FASEB Journal, 2007, 21, 3827-3834.	0.2	35
61	Anne McLaren (1927â€"2007). Differentiation, 2007, 75, 899-901.	1.0	0
62	A brief history of RNAi: the silence of the genes. FASEB Journal, 2006, 20, 1293-1299.	0.2	191
63	Microenvironmental VEGF distribution is critical for stable and functional vessel growth in ischemia. FASEB Journal, 2006, 20, 2657-2659.	0.2	117
64	Optimizing Techniques for Tracking Transplanted Stem Cells In Vivo. Stem Cells, 2005, 23, 1251-1265.	1.4	120
65	Myoblast-mediated gene transfer for therapeutic angiogenesis and arteriogenesis. British Journal of Pharmacology, 2003, 140, 620-626.	2.7	33
66	Significant differences among skeletal muscles in the incorporation of bone marrow-derived cells. Developmental Biology, 2003, 262, 64-74.	0.9	90
67	Transient production of ?-smooth muscle actin by skeletal myoblasts during differentiation in culture and following intramuscular implantation. Cytoskeleton, 2002, 51, 177-186.	4.4	45
68	The Evolving Concept of a Stem Cell. Cell, 2001, 105, 829-841.	13.5	1,031
69	Induction of angiogenesis by implantation of encapsulated primary myoblasts expressing vascular endothelial growth factor. Journal of Gene Medicine, 2000, 2, 279-288.	1.4	48
70	Epidermal growth factor receptor dimerization monitored in live cells. Nature Biotechnology, 2000, 18, 218-222.	9.4	90
71	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, 797-799.	3.3	111
72	Regulating the Regulators. Nature Biotechnology, 1999, 17, 20-20.	9.4	0

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73	Inhibition of Solid Tumor Growth by Fas Ligand-Expressing Myoblasts. Somatic Cell and Molecular Genetics, 1998, 24, 281-289.	0.7	4
74	Expression of Bcl-XS alters cytokinetics and decreases clonogenic survival in K12 rat colon carcinoma cells. Oncogene, 1998, 17, 2981-2991.	2.6	10
75	Tetracycline-regulatable factors with distinct dimerization domains allow reversible growth inhibition by p16. Nature Genetics, 1998, 20, 389-393.	9.4	117
76	Fusion Competence of Myoblasts Rendered Genetically Null for N-Cadherin in Culture. Journal of Cell Biology, 1997, 138, 331-336.	2.3	81
77	The fate of individual myoblasts after transplantation into muscles of DMD patients. Nature Medicine, 1997, 3, 970-977.	15.2	296
78	High-efficiency retroviral infection of primary myoblasts. Somatic Cell and Molecular Genetics, 1997, 23, 203-209.	0.7	78
79	Death of solid tumor cells induced by fas ligand expressing primary myoblasts. Somatic Cell and Molecular Genetics, 1997, 23, 249-257.	0.7	15
80	A method to codetect introduced genes and their products in gene therapy protocols. Nature Biotechnology, 1996, 14, 1012-1016.	9.4	51
81	Primary mouse myoblast purification, characterization, and transplantation for cell-mediated gene therapy.. Journal of Cell Biology, 1994, 125, 1275-1287.	2.3	901
82	Differentiation Requires Continuous Active Control. Annual Review of Biochemistry, 1992, 61, 1213-1230.	5.0	152
83	Normal dystrophin transcripts detected in Duchenne muscular dystrophy patients after myoblast transplantation. Nature, 1992, 356, 435-438.	13.7	406
84	How cells know their place. Nature, 1992, 358, 284-285.	13.7	3
85	Letters to the editor. Muscle and Nerve, 1992, 15, 1209-1215.	1.0	28
86	Regulating the myogenic regulators. Symposia of the Society for Experimental Biology, 1992, 46, 9-18.	0.0	1
87	Differentiation requires continuous regulation.. Journal of Cell Biology, 1991, 112, 781-783.	2.3	265
88	Effect of cell history on response to helixâ€"loopâ€"helix family of myogenic regulators. Nature, 1990, 344, 454-458.	13.7	163
89	Migration of myoblasts across basal lamina during skeletal muscle development. Nature, 1990, 345, 350-353.	13.7	194
90	Cell lineage in vertebrate development. Current Opinion in Cell Biology, 1990, 2, 981-985.	2.6	9

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91	Localization of muscle gene products in nuclear domains. Nature, 1989, 337, 570-573.	13.7	300
92	Differential Patterns of Transcript Accumulation during Human Myogenesis. Molecular and Cellular Biology, 1987, 7, 4100-4114.	1.1	61