Jeff A Biernaskie

List of Publications by Year
in descending order

77 papers	5,659 citations	159525 30 h-index	82499 72 g-index
79 all docs	79 docs citations	79 times ranked	6206 citing authors

#	Article	IF	Citations
1	Dexamethasone modulates immature neutrophils and interferon programming in severe COVID-19. Nature Medicine, 2022, 28, 201-211.	15.2	132
2	Attenuation of SARS-CoV-2 infection by losartan in human kidney organoids. IScience, 2022, 25, 103818.	1.9	15
3	Intravital Microscopy Techniques to Image Wound Healing in Mouse Skin. Methods in Molecular Biology, 2022, 2440, 165-180.	0.4	1
4	Proteoglycan 4 (PRG4) treatment enhances wound closure and tissue regeneration. Npj Regenerative Medicine, 2022, 7, .	2.5	8
5	Singleâ€cell transcriptomic analysis of small and large wounds reveals the distinct spatial organization of regenerative fibroblasts. Experimental Dermatology, 2021, 30, 92-101.	1.4	42
6	Biomechanics of Wound Healing in an Equine Limb Model: Effect of Location and Treatment with a Peptide-Modified Collagenâ€“Chitosan Hydrogel. ACS Biomaterials Science and Engineering, 2021, 7, 265-278.	2.6	16
7	Profiling Chromatin Accessibility at Single-cell Resolution. Genomics, Proteomics and Bioinformatics, 2021, 19, 172-190.	3.0	18
8	A subpopulation of embryonic microglia respond to maternal stress and influence nearby neural progenitors. Developmental Cell, 2021, 56, 1326-1345.e6.	3.1	27
9	Control of dissolved oxygen significantly increases the yield of skinâ€derived Schwann cells during expansion in stirred suspension bioreactors. Engineering Reports, 2021, 3, e12421.	0.9	3
10	PNKP is required for maintaining the integrity of progenitor cell populations in adult mice. Life Science Alliance, 2021, 4, e202000790.	1.3	3
11	Marginating transitional B cells modulate neutrophils in the lung during inflammation and pneumonia. Journal of Experimental Medicine, 2021, 218, .	4.2	15
12	Fibroblasts: Origins, definitions, and functions in health and disease. Cell, 2021, 184, 3852-3872.	13.5	340
13	Loss of Ubiquitin Carboxy-Terminal Hydrolase L1 Impairs Long-Term Differentiation Competence and Metabolic Regulation in Murine Spermatogonial Stem Cells. Cells, 2021, 10, 2265.	1.8	12
14	Proneural genes define ground-state rules to regulate neurogenic patterning and cortical folding. Neuron, 2021, 109, 2847-2863.e11.	3.8	26
15	Induced pluripotency in the context of stem cell expansion bioprocess development, optimization, and manufacturing: a roadmap to the clinic. Npj Regenerative Medicine, 2021, 6, 72.	2.5	13
16	Cage-lid hanging behavior as a translationally relevant measure of pain in mice. Pain, 2021, 162, 1416-1425.	2.0	35
17	Transplantation of Skin Precursor-Derived Schwann Cells Yields Better Locomotor Outcomes and Reduces Bladder Pathology in Rats with Chronic Spinal Cord Injury. Stem Cell Reports, 2020, 15, 140-155.	2.3	21
18	Distinct Regulatory Programs Control the Latent Regenerative Potential of Dermal Fibroblasts during Wound Healing. Cell Stem Cell, 2020, 27, 396-412.e6.	5.2	120

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19	Immune modulation of hair follicle regeneration. Npj Regenerative Medicine, 2020, 5, 9.	2.5	57
20	Development and function of smooth muscle cells is modulated by Hic1 in mouse testis. Development (Cambridge), 2020, 147, .	1.2	12
21	Macrophages and Associated Ligands in the Aged Injured Nerve: A Defective Dynamic That Contributes to Reduced Axonal Regrowth. Frontiers in Aging Neuroscience, 2020, 12, 174.	1.7	12
22	Microglia response following acute demyelination is heterogeneous and limits infiltrating macrophage dispersion. Science Advances, 2020, 6, eaay6324.	4.7	130
23	Spectral Characterization of Stem Cell-Derived Myelination within the Injured Adult PNS Using the Solvatochromic Dye Nile Red. Cells, 2020, 9, 189.	1.8	0
24	Transcriptional Profiling of the Adult Hair Follicle Mesenchyme Reveals R-spondin as a Novel Regulator of Dermal Progenitor Function. IScience, 2020, 23, 101019.	1.9	31
25	Dysfunction of Hair Follicle Mesenchymal Progenitors Contributes to Age-Associated Hair Loss. Developmental Cell, 2020, 53, 185-198.e7.	3.1	56
26	Insights Into the Role and Potential of Schwann Cells for Peripheral Nerve Repair From Studies of Development and Injury. Frontiers in Molecular Neuroscience, 2020, 13, 608442.	1.4	54
27	Droplet Barcoding-Based Single Cell Transcriptomics of Adult Mammalian Tissues. Journal of Visualized Experiments, 2019, , .	0.2	4
28	A tale of two cousins: Ependymal cells, quiescent neural stem cells and potential mechanisms driving their functional divergence. FEBS Journal, 2019, 286, 3110-3116.	2.2	11
29	Injury modifies the fate of hair follicle dermal stem cell progeny in a hair cycleâ€dependent manner. Experimental Dermatology, 2019, 28, 419-424.	1.4	15
30	Adult Human Dermal Progenitor Cell Transplantation Modulates the Functional Outcome of Split-Thickness Skin Xenografts. Stem Cell Reports, 2019, 13, 1068-1082.	2.3	8
31	Flowable Polyethylene Glycol Hydrogels Support the in Vitro Survival and Proliferation of Dermal Progenitor Cells in a Mechanically Dependent Manner. ACS Biomaterials Science and Engineering, 2019, 5, 950-958.	2.6	6
32	Epidemiological analysis of pediatric burns in the Dominican Republic reveals a demographic profile at significant risk for electrical burns. Burns, 2019, 45, 471-478.	1.1	8
33	A novel approach to 32-channel peripheral nervous system myelin imaging in vivo, with single axon resolution. Journal of Neurosurgery, 2018, 130, 163-171.	0.9	7
34	Single-Cell Transcriptomics and Fate Mapping of Ependymal Cells Reveals an Absence of Neural Stem Cell Function. Cell, 2018, 173, 1045-1057.e9.	13.5	139
35	Reply to Comment on â€˜Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer ratsâ€™. Biomedical Materials (Bristol), 2018, 13, 048002.	1.7	0
36	Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer rats. Biomedical Materials (Bristol), 2018, 13, 034101.	1.7	10

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37	Factors Within the Endoneurial Microenvironment Act to Suppress Tumorigenesis of MPNST. Frontiers in Cellular Neuroscience, 2018, 12, 356.	1.8	3
38	17-DMAG regulates p21 expression to induce chondrogenesis in vitro and in vivo. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	9
39	Macrophages Regulate Schwann Cell Maturation after Nerve Injury. Cell Reports, 2018, 24, 2561-2572.e6.	2.9	142
40	Macrophages Promote Wound-Induced Hair Follicle Regeneration in a CX3CR1- and TGF-Î²1â€“Dependent Manner. Journal of Investigative Dermatology, 2018, 138, 2111-2122.	0.3	48
41	Burns from illegal cannabis oil manufacturing: a case series. CMAJ Open, 2018, 6, E39-E43.	1.1	2
42	Microglial pannexin-1 channel activation is a spinal determinant of joint pain. Science Advances, 2018, 4, eaas9846.	4.7	73
43	Burn clinical trials: A systematic review of registration and publications. Burns, 2018, 44, 263-271.	1.1	5
44	Serum-free bioprocessing of adult human and rodent skin-derived Schwann cells: implications for cell therapy in nervous system injury. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3385-3397.	1.3	8
45	Hair follicle dermal stem cells and skinâ€derived precursor cells: Exciting tools for endogenous and exogenous therapies. Experimental Dermatology, 2017, 26, 505-509.	1.4	29
46	Platelet-derived growth factor signaling modulates adult hair follicle dermal stem cell maintenance and self-renewal. Npj Regenerative Medicine, 2017, 2, 11.	2.5	38
47	Cyclosporine-immunosuppression does not affect survival of transplanted skin-derived precursor Schwann cells in the injured rat spinal cord. Neuroscience Letters, 2017, 658, 67-72.	1.0	4
48	Biocomposite nanofiber matrices to support ECM remodeling by human dermal progenitors and enhanced wound closure. Scientific Reports, 2017, 7, 10291.	1.6	66
49	Myelinogenic Plasticity of Oligodendrocyte Precursor Cells following Spinal Cord Contusion Injury. Journal of Neuroscience, 2017, 37, 8635-8654.	1.7	104
50	Enhanced Expansion and Sustained Inductive Function of Skin-Derived Precursor Cells in Computer-Controlled Stirred Suspension Bioreactors. Stem Cells Translational Medicine, 2017, 6, 434-443.	1.6	16
51	Primary cilia on porcine testicular somatic cells and their role in hedgehog signaling and tubular morphogenesis in vitro. Cell and Tissue Research, 2017, 368, 215-223.	1.5	14
52	Purification and Characterization of Schwann Cells from Adult Human Skin and Nerve. ENeuro, 2017, 4, ENEURO.0307-16.2017.	0.9	49
53	SOX2 in the Skin. , 2016, , 281-300.		1
54	Collagen structural alterations contribute to stiffening of tissue after splitâ€thickness skin grafting. Wound Repair and Regeneration, 2016, 24, 263-274.	1.5	18

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55	Establishment of a cone photoreceptor transplantation platform based on a novel cone-GFP reporter mouse line. Scientific Reports, 2016, 6, 22867.	1.6	39
56	Bioreactor Expansion of Skin-Derived Precursor Schwann Cells. Methods in Molecular Biology, 2016, 1502, 103-110.	0.4	3
57	PtenRegulates Retinal Amacrine Cell Number by Modulating Akt, Tgfβ2, and Erk Signaling. Journal of Neuroscience, 2016, 36, 9454-9471.	1.7	21
58	Largeâ€scale expansion of human skinâ€derived precursor cells (hSKPs) in stirred suspension bioreactors. Biotechnology and Bioengineering, 2016, 113, 2725-2738.	1.7	13
59	Firefighter willingness to participate in a stem cell clinical trial for burns: A mixed methods study. Burns, 2016, 42, 1740-1750.	1.1	6
60	The immunomodulatory properties of adult skinâ€derived precursor <scp>S</scp>chwann cells: implications for peripheral nerve injury therapy. European Journal of Neuroscience, 2016, 43, 365-375.	1.2	37
61	Enzyme responsive GAG-based natural-synthetic hybrid hydrogel for tunable growth factor delivery and stem cell differentiation. Biomaterials, 2016, 87, 104-117.	5.7	121
62	Adult skin-derived precursor Schwann cells exhibit superior myelination and regeneration supportive properties compared to chronically denervated nerve-derived Schwann cells. Experimental Neurology, 2016, 278, 127-142.	2.0	26
63	Temporal Analysis of Gene Expression in the Murine Schwann Cell Lineage and the Acutely Injured Postnatal Nerve. PLoS ONE, 2016, 11, e0153256.	1.1	41
64	Schwann Cells Generated from Neonatal Skin-Derived Precursors or Neonatal Peripheral Nerve Improve Functional Recovery after Acute Transplantation into the Partially Injured Cervical Spinal Cord of the Rat. Journal of Neuroscience, 2015, 35, 6714-6730.	1.7	70
65	Hair Follicle Dermal Stem Cells Regenerate the Dermal Sheath, Repopulate the Dermal Papilla, and Modulate Hair Type. Developmental Cell, 2014, 31, 543-558.	3.1	189
66	Isolation and Differentiation of Hair Follicle-Derived Dermal Precursors. Methods in Molecular Biology, 2013, 989, 247-263.	0.4	9
67	White Matter Repair: Skin-Derived Precursors as a Source of Myelinating Cells. Canadian Journal of Neurological Sciences, 2010, 37, S34-S41.	0.3	13
68	Human Hair Follicles: â€œBulgingâ€•with Neural Crestâ€“Like Stem Cells. Journal of Investigative Dermatology, 2010, 130, 1202-1204.	0.3	21
69	SKPs Derive from Hair Follicle Precursors and Exhibit Properties of Adult Dermal Stem Cells. Cell Stem Cell, 2009, 5, 610-623.	5.2	335
70	Skin-Derived Precursors Generate Myelinating Schwann Cells That Promote Remyelination and Functional Recovery after Contusion Spinal Cord Injury. Journal of Neuroscience, 2007, 27, 9545-9559.	1.7	279
71	Skin-Derived Precursors Generate Myelinating Schwann Cells for the Injured and Dysmyelinated Nervous System. Journal of Neuroscience, 2006, 26, 6651-6660.	1.7	298
72	Bi-hemispheric contribution to functional motor recovery of the affected forelimb following focal ischemic brain injury in rats. European Journal of Neuroscience, 2005, 21, 989-999.	1.2	171

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73	A dermal niche for multipotent adult skin-derived precursor cells. Nature Cell Biology, 2004, 6, 1082-1093.	4.6	692
74	Efficacy of Rehabilitative Experience Declines with Time after Focal Ischemic Brain Injury. Journal of Neuroscience, 2004, 24, 1245-1254.	1.7	574
75	Enriched Rehabilitative Training Promotes Improved Forelimb Motor Function and Enhanced Dendritic Growth after Focal Ischemic Injury. Journal of Neuroscience, 2001, 21, 5272-5280.	1.7	534
76	A serial MR study of cerebral blood flow changes and lesion development following endothelin-1-induced ischemia in rats. Magnetic Resonance in Medicine, 2001, 46, 827-830.	1.9	118
77	Comparison of human skinâ€•and nerveâ€derived Schwann cells reveals many similarities and subtle genomic and functional differences. Glia, 0, , .	2.5	6