

Jeff A Biernaskie

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

5,659
citations

159358

30
h-index

82410

72
g-index

79
all docs

79
docs citations

79
times ranked

6206
citing authors

#	ARTICLE	IF	CITATIONS
1	A dermal niche for multipotent adult skin-derived precursor cells. <i>Nature Cell Biology</i> , 2004, 6, 1082-1093.	4.6	692
2	Efficacy of Rehabilitative Experience Declines with Time after Focal Ischemic Brain Injury. <i>Journal of Neuroscience</i> , 2004, 24, 1245-1254.	1.7	574
3	Enriched Rehabilitative Training Promotes Improved Forelimb Motor Function and Enhanced Dendritic Growth after Focal Ischemic Injury. <i>Journal of Neuroscience</i> , 2001, 21, 5272-5280.	1.7	534
4	Fibroblasts: Origins, definitions, and functions in health and disease. <i>Cell</i> , 2021, 184, 3852-3872.	13.5	340
5	SKPs Derive from Hair Follicle Precursors and Exhibit Properties of Adult Dermal Stem Cells. <i>Cell Stem Cell</i> , 2009, 5, 610-623.	5.2	335
6	Skin-Derived Precursors Generate Myelinating Schwann Cells for the Injured and Dysmyelinated Nervous System. <i>Journal of Neuroscience</i> , 2006, 26, 6651-6660.	1.7	298
7	Skin-Derived Precursors Generate Myelinating Schwann Cells That Promote Remyelination and Functional Recovery after Contusion Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2007, 27, 9545-9559.	1.7	279
8	Hair Follicle Dermal Stem Cells Regenerate the Dermal Sheath, Repopulate the Dermal Papilla, and Modulate Hair Type. <i>Developmental Cell</i> , 2014, 31, 543-558.	3.1	189
9	Bi-hemispheric contribution to functional motor recovery of the affected forelimb following focal ischemic brain injury in rats. <i>European Journal of Neuroscience</i> , 2005, 21, 989-999.	1.2	171
10	Macrophages Regulate Schwann Cell Maturation after Nerve Injury. <i>Cell Reports</i> , 2018, 24, 2561-2572.e6.	2.9	142
11	Single-Cell Transcriptomics and Fate Mapping of Ependymal Cells Reveals an Absence of Neural Stem Cell Function. <i>Cell</i> , 2018, 173, 1045-1057.e9.	13.5	139
12	Dexamethasone modulates immature neutrophils and interferon programming in severe COVID-19. <i>Nature Medicine</i> , 2022, 28, 201-211.	15.2	132
13	Microglia response following acute demyelination is heterogeneous and limits infiltrating macrophage dispersion. <i>Science Advances</i> , 2020, 6, eaay6324.	4.7	130
14	Enzyme responsive GAG-based natural-synthetic hybrid hydrogel for tunable growth factor delivery and stem cell differentiation. <i>Biomaterials</i> , 2016, 87, 104-117.	5.7	121
15	Distinct Regulatory Programs Control the Latent Regenerative Potential of Dermal Fibroblasts during Wound Healing. <i>Cell Stem Cell</i> , 2020, 27, 396-412.e6.	5.2	120
16	A serial MR study of cerebral blood flow changes and lesion development following endothelin-1-induced ischemia in rats. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 827-830.	1.9	118
17	Myelinogenic Plasticity of Oligodendrocyte Precursor Cells following Spinal Cord Contusion Injury. <i>Journal of Neuroscience</i> , 2017, 37, 8635-8654.	1.7	104
18	Microglial pannexin-1 channel activation is a spinal determinant of joint pain. <i>Science Advances</i> , 2018, 4, eaas9846.	4.7	73

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19	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. <i>Journal of Neuroscience</i> , 2015, 35, 6714-6730.	1.7	70
20	Biocomposite nanofiber matrices to support ECM remodeling by human dermal progenitors and enhanced wound closure. <i>Scientific Reports</i> , 2017, 7, 10291.	1.6	66
21	Immune modulation of hair follicle regeneration. <i>Npj Regenerative Medicine</i> , 2020, 5, 9.	2.5	57
22	Dysfunction of Hair Follicle Mesenchymal Progenitors Contributes to Age-Associated Hair Loss. <i>Developmental Cell</i> , 2020, 53, 185-198.e7.	3.1	56
23	Insights Into the Role and Potential of Schwann Cells for Peripheral Nerve Repair From Studies of Development and Injury. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 608442.	1.4	54
24	Purification and Characterization of Schwann Cells from Adult Human Skin and Nerve. <i>ENeuro</i> , 2017, 4, ENEURO.0307-16.2017.	0.9	49
25	Macrophages Promote Wound-Induced Hair Follicle Regeneration in a CX3CR1- and TGF- β 1-Dependent Manner. <i>Journal of Investigative Dermatology</i> , 2018, 138, 2111-2122.	0.3	48
26	Single-cell transcriptomic analysis of small and large wounds reveals the distinct spatial organization of regenerative fibroblasts. <i>Experimental Dermatology</i> , 2021, 30, 92-101.	1.4	42
27	Temporal Analysis of Gene Expression in the Murine Schwann Cell Lineage and the Acutely Injured Postnatal Nerve. <i>PLoS ONE</i> , 2016, 11, e0153256.	1.1	41
28	Establishment of a cone photoreceptor transplantation platform based on a novel cone-GFP reporter mouse line. <i>Scientific Reports</i> , 2016, 6, 22867.	1.6	39
29	Platelet-derived growth factor signaling modulates adult hair follicle dermal stem cell maintenance and self-renewal. <i>Npj Regenerative Medicine</i> , 2017, 2, 11.	2.5	38
30	The immunomodulatory properties of adult skin-derived precursor Schwann cells: implications for peripheral nerve injury therapy. <i>European Journal of Neuroscience</i> , 2016, 43, 365-375.	1.2	37
31	Cage-lid hanging behavior as a translationally relevant measure of pain in mice. <i>Pain</i> , 2021, 162, 1416-1425.	2.0	35
32	Transcriptional Profiling of the Adult Hair Follicle Mesenchyme Reveals R-spondin as a Novel Regulator of Dermal Progenitor Function. <i>IScience</i> , 2020, 23, 101019.	1.9	31
33	Hair follicle dermal stem cells and skin-derived precursor cells: Exciting tools for endogenous and exogenous therapies. <i>Experimental Dermatology</i> , 2017, 26, 505-509.	1.4	29
34	A subpopulation of embryonic microglia respond to maternal stress and influence nearby neural progenitors. <i>Developmental Cell</i> , 2021, 56, 1326-1345.e6.	3.1	27
35	Adult skin-derived precursor Schwann cells exhibit superior myelination and regeneration supportive properties compared to chronically denervated nerve-derived Schwann cells. <i>Experimental Neurology</i> , 2016, 278, 127-142.	2.0	26
36	Proneural genes define ground-state rules to regulate neurogenic patterning and cortical folding. <i>Neuron</i> , 2021, 109, 2847-2863.e11.	3.8	26

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37	Human Hair Follicles: “Bulging” with Neural Crest-Like Stem Cells. <i>Journal of Investigative Dermatology</i> , 2010, 130, 1202-1204.	0.3	21
38	<i>Pten</i> Regulates Retinal Amacrine Cell Number by Modulating Akt, Tgf β ² , and Erk Signaling. <i>Journal of Neuroscience</i> , 2016, 36, 9454-9471.	1.7	21
39	Transplantation of Skin Precursor-Derived Schwann Cells Yields Better Locomotor Outcomes and Reduces Bladder Pathology in Rats with Chronic Spinal Cord Injury. <i>Stem Cell Reports</i> , 2020, 15, 140-155.	2.3	21
40	Collagen structural alterations contribute to stiffening of tissue after split-thickness skin grafting. <i>Wound Repair and Regeneration</i> , 2016, 24, 263-274.	1.5	18
41	Profiling Chromatin Accessibility at Single-cell Resolution. <i>Genomics, Proteomics and Bioinformatics</i> , 2021, 19, 172-190.	3.0	18
42	Enhanced Expansion and Sustained Inductive Function of Skin-Derived Precursor Cells in Computer-Controlled Stirred Suspension Bioreactors. <i>Stem Cells Translational Medicine</i> , 2017, 6, 434-443.	1.6	16
43	Biomechanics of Wound Healing in an Equine Limb Model: Effect of Location and Treatment with a Peptide-Modified Collagen-Chitosan Hydrogel. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 265-278.	2.6	16
44	Injury modifies the fate of hair follicle dermal stem cell progeny in a hair cycle-dependent manner. <i>Experimental Dermatology</i> , 2019, 28, 419-424.	1.4	15
45	Marginating transitional B cells modulate neutrophils in the lung during inflammation and pneumonia. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	15
46	Attenuation of SARS-CoV-2 infection by losartan in human kidney organoids. <i>IScience</i> , 2022, 25, 103818.	1.9	15
47	Primary cilia on porcine testicular somatic cells and their role in hedgehog signaling and tubular morphogenesis in vitro. <i>Cell and Tissue Research</i> , 2017, 368, 215-223.	1.5	14
48	White Matter Repair: Skin-Derived Precursors as a Source of Myelinating Cells. <i>Canadian Journal of Neurological Sciences</i> , 2010, 37, S34-S41.	0.3	13
49	Large-scale expansion of human skin-derived precursor cells (hSKPs) in stirred suspension bioreactors. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2725-2738.	1.7	13
50	Induced pluripotency in the context of stem cell expansion bioprocess development, optimization, and manufacturing: a roadmap to the clinic. <i>Npj Regenerative Medicine</i> , 2021, 6, 72.	2.5	13
51	Development and function of smooth muscle cells is modulated by Hic1 in mouse testis. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	12
52	Macrophages and Associated Ligands in the Aged Injured Nerve: A Defective Dynamic That Contributes to Reduced Axonal Regrowth. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 174.	1.7	12
53	Loss of Ubiquitin Carboxy-Terminal Hydrolase L1 Impairs Long-Term Differentiation Competence and Metabolic Regulation in Murine Spermatogonial Stem Cells. <i>Cells</i> , 2021, 10, 2265.	1.8	12
54	A tale of two cousins: Ependymal cells, quiescent neural stem cells and potential mechanisms driving their functional divergence. <i>FEBS Journal</i> , 2019, 286, 3110-3116.	2.2	11

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55	Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer rats. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 034101.	1.7	10
56	Isolation and Differentiation of Hair Follicle-Derived Dermal Precursors. <i>Methods in Molecular Biology</i> , 2013, 989, 247-263.	0.4	9
57	17-DMAG regulates p21 expression to induce chondrogenesis <i>in vitro</i> and <i>in vivo</i> . <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	1.2	9
58	Serum-free bioprocessing of adult human and rodent skin-derived Schwann cells: implications for cell therapy in nervous system injury. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 3385-3397.	1.3	8
59	Adult Human Dermal Progenitor Cell Transplantation Modulates the Functional Outcome of Split-Thickness Skin Xenografts. <i>Stem Cell Reports</i> , 2019, 13, 1068-1082.	2.3	8
60	Epidemiological analysis of pediatric burns in the Dominican Republic reveals a demographic profile at significant risk for electrical burns. <i>Burns</i> , 2019, 45, 471-478.	1.1	8
61	Proteoglycan 4 (PRG4) treatment enhances wound closure and tissue regeneration. <i>Npj Regenerative Medicine</i> , 2022, 7, .	2.5	8
62	A novel approach to 32-channel peripheral nervous system myelin imaging <i>in vivo</i> , with single axon resolution. <i>Journal of Neurosurgery</i> , 2018, 130, 163-171.	0.9	7
63	Firefighter willingness to participate in a stem cell clinical trial for burns: A mixed methods study. <i>Burns</i> , 2016, 42, 1740-1750.	1.1	6
64	Flowable Polyethylene Glycol Hydrogels Support the <i>in Vitro</i> Survival and Proliferation of Dermal Progenitor Cells in a Mechanically Dependent Manner. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 950-958.	2.6	6
65	Comparison of human skin- and nerve-derived Schwann cells reveals many similarities and subtle genomic and functional differences. <i>Glia</i> , 0, , .	2.5	6
66	Burn clinical trials: A systematic review of registration and publications. <i>Burns</i> , 2018, 44, 263-271.	1.1	5
67	Cyclosporine-immunosuppression does not affect survival of transplanted skin-derived precursor Schwann cells in the injured rat spinal cord. <i>Neuroscience Letters</i> , 2017, 658, 67-72.	1.0	4
68	Droplet Barcoding-Based Single Cell Transcriptomics of Adult Mammalian Tissues. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	4
69	Bioreactor Expansion of Skin-Derived Precursor Schwann Cells. <i>Methods in Molecular Biology</i> , 2016, 1502, 103-110.	0.4	3
70	Factors Within the Endoneurial Microenvironment Act to Suppress Tumorigenesis of MPNST. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 356.	1.8	3
71	Control of dissolved oxygen significantly increases the yield of skin-derived Schwann cells during expansion in stirred suspension bioreactors. <i>Engineering Reports</i> , 2021, 3, e12421.	0.9	3
72	PNKP is required for maintaining the integrity of progenitor cell populations in adult mice. <i>Life Science Alliance</i> , 2021, 4, e202000790.	1.3	3

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73	Burns from illegal cannabis oil manufacturing: a case series. CMAJ Open, 2018, 6, E39-E43.	1.1	2
74	SOX2 in the Skin. , 2016, , 281-300.		1
75	Intravital Microscopy Techniques to Image Wound Healing in Mouse Skin. Methods in Molecular Biology, 2022, 2440, 165-180.	0.4	1
76	Reply to Comment on "Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer rats". Biomedical Materials (Bristol), 2018, 13, 048002.	1.7	0
77	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