

Shelly E Sakiyama-Elbert

List of Publications by Year in descending order

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103
papers

8,753
citations

34016

52
h-index

42291

92
g-index

110
all docs

110
docs citations

110
times ranked

8407
citing authors

#	ARTICLE	IF	CITATIONS
1	A transgenic mouse embryonic stem cell line for puromycin selection of V0V interneurons from heterogenous induced cultures. <i>Stem Cell Research and Therapy</i> , 2022, 13, 131.	2.4	0
2	Metabolic regulation of intrasynovial flexor tendon repair: The effects of dichloroacetate administration on early tendon healing in a canine model. <i>Journal of Orthopaedic Research</i> , 2022, , .	1.2	2
3	Flexor Tendon Injury and Repair. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, e36.	1.4	11
4	Fund Black scientists. <i>Cell</i> , 2021, 184, 561-565.	13.5	107
5	Passive Clearing and 3D Lightsheet Imaging of the Intact and Injured Spinal Cord in Mice. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 684792.	1.8	7
6	Induction of Ventral Spinal VO Interneurons from Mouse Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2021, 30, 816-829.	1.1	3
7	V2a interneuron differentiation from mouse and human pluripotent stem cells. <i>Nature Protocols</i> , 2019, 14, 3033-3058.	5.5	25
8	Combining Stem Cells and Biomaterial Scaffolds for Constructing Tissues and Cell Delivery. <i>StemJournal</i> , 2019, 1, 1-25.	0.8	62
9	The influence of microenvironment and extracellular matrix molecules in driving neural stem cell fate within biomaterials. <i>Brain Research Bulletin</i> , 2019, 148, 25-33.	1.4	32
10	Derivation of Specific Neural Populations From Pluripotent Cells for Understanding and Treatment of Spinal Cord Injury. <i>Developmental Dynamics</i> , 2019, 248, 78-87.	0.8	15
11	Matrices, scaffolds & carriers for cell delivery in nerve regeneration. <i>Experimental Neurology</i> , 2019, 319, 112837.	2.0	50
12	Effect of hyaluronic acid hydrogels containing astrocyte-derived extracellular matrix and/or V2a interneurons on histologic outcomes following spinal cord injury. <i>Biomaterials</i> , 2018, 162, 208-223.	5.7	71
13	Effect of connective tissue growth factor delivered via porous sutures on the proliferative stage of intrasynovial tendon repair. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2052-2063.	1.2	15
14	Genome engineering for CNS injury and disease. <i>Current Opinion in Biotechnology</i> , 2018, 52, 89-94.	3.3	6
15	Using biomaterials to promote pro-regenerative glial phenotypes after nervous system injuries. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 024104.	1.7	20
16	The effect of adipose-derived stem cell sheets and CTGF on early flexor tendon healing in a canine model. <i>Scientific Reports</i> , 2018, 8, 11078.	1.6	37
17	The Neuroplastic and Therapeutic Potential of Spinal Interneurons in the Injured Spinal Cord. <i>Trends in Neurosciences</i> , 2018, 41, 625-639.	4.2	64
18	A microfluidic platform to study the effects of GDNF on neuronal axon entrapment. <i>Journal of Neuroscience Methods</i> , 2018, 308, 183-191.	1.3	9

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19	Transplantation of Neural Progenitors and V2a Interneurons after Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 2883-2903.	1.7	58
20	Transgenic SCs expressing GDNF α ires α red impair nerve regeneration within acellular nerve allografts. <i>Biotechnology and Bioengineering</i> , 2017, 114, 2121-2130.	1.7	13
21	Combined Administration of ASCs and BMP-12 Promotes an M2 Macrophage Phenotype and Enhances Tendon Healing. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 2318-2331.	0.7	63
22	Increased Tissue Stiffness in Tumors from Mice with Neurofibromatosis-1 Optic Glioma. <i>Biophysical Journal</i> , 2017, 112, 1535-1538.	0.2	19
23	Different Mixed Astrocyte Populations Derived from Embryonic Stem Cells Have Variable Neuronal Growth Support Capacities. <i>Stem Cells and Development</i> , 2017, 26, 1597-1611.	1.1	11
24	Stem cells for spinal cord injury: Strategies to inform differentiation and transplantation. <i>Biotechnology and Bioengineering</i> , 2017, 114, 245-259.	1.7	43
25	Comparison of Conventional, Revascularized, and Bioengineered Methods of Recurrent Laryngeal Nerve Reconstruction. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2016, 142, 526.	1.2	13
26	Effect of adipose α derived stromal cells and BMP12 on intrasynovial tendon repair: A biomechanical, biochemical, and proteomics study. <i>Journal of Orthopaedic Research</i> , 2016, 34, 630-640.	1.2	31
27	The effect of mesenchymal stromal cell sheets on the inflammatory stage of flexor tendon healing. <i>Stem Cell Research and Therapy</i> , 2016, 7, 144.	2.4	73
28	Generation of highly enriched V2a interneurons from mouse embryonic stem cells. <i>Experimental Neurology</i> , 2016, 277, 305-316.	2.0	26
29	A puromycin selectable cell line for the enrichment of mouse embryonic stem cell-derived V3 interneurons. <i>Stem Cell Research and Therapy</i> , 2015, 6, 220.	2.4	16
30	Fabrication and characterization of poly-(μ)-caprolactone and bioactive glass composites for tissue engineering applications. <i>Materials Science and Engineering C</i> , 2015, 49, 632-639.	3.8	27
31	GDNF preconditioning can overcome Schwann cell phenotypic memory. <i>Experimental Neurology</i> , 2015, 265, 1-7.	2.0	27
32	Comparison of Acellular Nerve Allograft Modification with Schwann Cells or VEGF. <i>Hand</i> , 2015, 10, 396-402.	0.7	45
33	Directed Differentiation of V3 Interneurons from Mouse Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2015, 24, 2723-2732.	1.1	22
34	Sustained dual drug delivery of anti-inhibitory molecules for treatment of spinal cord injury. <i>Journal of Controlled Release</i> , 2015, 213, 103-111.	4.8	57
35	Adipose-derived mesenchymal stromal cells modulate tendon fibroblast responses to macrophage-induced inflammation in vitro. <i>Stem Cell Research and Therapy</i> , 2015, 6, 74.	2.4	110
36	Finely Tuned Temporal and Spatial Delivery of GDNF Promotes Enhanced Nerve Regeneration in a Long Nerve Defect Model. <i>Tissue Engineering - Part A</i> , 2015, 21, 2852-2864.	1.6	59

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37	Combination therapy of stem cell derived neural progenitors and drug delivery of anti-inhibitory molecules for spinal cord injury. <i>Acta Biomaterialia</i> , 2015, 28, 23-32.	4.1	64
38	Effect of GDNF on schwann cell differentiation and interaction with neurons in vitro. , 2014, , .		0
39	Survival, differentiation, and migration of high-purity mouse embryonic stem cell-derived progenitor motor neurons in fibrin scaffolds after sub-acute spinal cord injury. <i>Biomaterials Science</i> , 2014, 2, 1672-1682.	2.6	54
40	Viral transduction of primary Schwann cells using a Cre ⁺ lox system to regulate GDNF expression. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1886-1894.	1.7	12
41	A new method for generating high purity motoneurons from mouse embryonic stem cells. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2041-2055.	1.7	19
42	Incorporation of heparin into biomaterials. <i>Acta Biomaterialia</i> , 2014, 10, 1581-1587.	4.1	180
43	The early inflammatory response after flexor tendon healing: A gene expression and histological analysis. <i>Journal of Orthopaedic Research</i> , 2014, 32, 645-652.	1.2	110
44	Generation of V2a Interneurons from Mouse Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2014, 23, 1765-1776.	1.1	46
45	Schwann cells seeded in acellular nerve grafts improve functional recovery. <i>Muscle and Nerve</i> , 2014, 49, 267-276.	1.0	64
46	Returning What is Lost: Schwann Cell Versus VEGF Addition to Acellular Nerve Allografts. <i>Journal of Hand Surgery</i> , 2014, 39, e12-e13.	0.7	1
47	The Parkinsonian mimetic, 6-OHDA, impairs axonal transport in dopaminergic axons. <i>Molecular Neurodegeneration</i> , 2014, 9, 17.	4.4	53
48	Glial cell line-derived neurotrophic factor promotes increased phenotypic marker expression in femoral sensory and motor-derived Schwann cell cultures. <i>Experimental Neurology</i> , 2014, 257, 10-18.	2.0	24
49	Effects of borate ⁺ -based bioactive glass on neuron viability and neurite extension. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2767-2775.	2.1	44
50	Engineering peripheral nerve repair. <i>Current Opinion in Biotechnology</i> , 2013, 24, 887-892.	3.3	75
51	Controlled delivery of mesenchymal stem cells and growth factors using a nanofiber scaffold for tendon repair. <i>Acta Biomaterialia</i> , 2013, 9, 6905-6914.	4.1	131
52	BMP12 induces tenogenic differentiation of adipose-derived stromal cells. <i>PLoS ONE</i> , 2013, 8, e77613.	1.1	92
53	Scaffolds to promote spinal cord regeneration. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2012, 109, 575-594.	1.0	56
54	Analysis of Cell Binding and Internalization of Multivalent PEG-Based Gene Delivery Vehicles. <i>IEEE Transactions on Nanobioscience</i> , 2012, 11, 54-61.	2.2	5

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55	Getting Your Research Out There: Open Access & More. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2503-2504.	1.3	0
56	Combination therapies in the CNS: Engineering the environment. <i>Neuroscience Letters</i> , 2012, 519, 115-121.	1.0	75
57	Transgenic enrichment of mouse embryonic stem cell-derived progenitor motor neurons. <i>Stem Cell Research</i> , 2012, 8, 368-378.	0.3	21
58	A microdevice platform for visualizing mitochondrial transport in aligned dopaminergic axons. <i>Journal of Neuroscience Methods</i> , 2012, 209, 35-39.	1.3	44
59	Differential gene expression in motor and sensory Schwann cells in the rat femoral nerve. <i>Journal of Neuroscience Research</i> , 2012, 90, 96-104.	1.3	52
60	Sustained delivery of transforming growth factor beta three enhances tendon-to-bone healing in a rat model. <i>Journal of Orthopaedic Research</i> , 2011, 29, 1099-1105.	1.2	149
61	A systematic evaluation of Schwann cell injection into acellular cold-preserved nerve grafts. <i>Journal of Neuroscience Methods</i> , 2011, 197, 209-215.	1.3	41
62	Controlled Release of Neurotrophin-3 and Platelet-Derived Growth Factor from Fibrin Scaffolds Containing Neural Progenitor Cells Enhances Survival and Differentiation into Neurons in a Subacute Model of SCI. <i>Cell Transplantation</i> , 2010, 19, 89-101.	1.2	185
63	Controlled Neurotrophic Factor Delivery To Promote Functional Peripheral Nerve Regeneration. <i>Plastic and Reconstructive Surgery</i> , 2010, 126, 55.	0.7	11
64	The Effects of Exogenous Basic Fibroblast Growth Factor on Intrasynovial Flexor Tendon Healing in a Canine Model. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 2285-2293.	1.4	87
65	bFGF and PDGF-BB for Tendon Repair: Controlled Release and Biologic Activity by Tendon Fibroblasts In Vitro. <i>Annals of Biomedical Engineering</i> , 2010, 38, 225-234.	1.3	87
66	Fibrin-based tissue engineering scaffolds enhance neural fiber sprouting and delay the accumulation of reactive astrocytes at the lesion in a subacute model of spinal cord injury. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 92A, 152-163.	2.1	110
67	Fibrin matrices with affinity-based delivery systems and neurotrophic factors promote functional nerve regeneration. <i>Biotechnology and Bioengineering</i> , 2010, 106, 970-979.	1.7	80
68	Controlled Delivery of Glial Cell Line-Derived Neurotrophic Factor Enhances Motor Nerve Regeneration. <i>Journal of Hand Surgery</i> , 2010, 35, 2008-2017.	0.7	44
69	Heparin-Binding-Affinity-Based Delivery Systems Releasing Nerve Growth Factor Enhance Sciatic Nerve Regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 771-787.	1.9	52
70	Tissue-engineered fibrin scaffolds containing neural progenitors enhance functional recovery in a subacute model of SCI. <i>Soft Matter</i> , 2010, 6, 5127.	1.2	120
71	Kinetic Analysis of Neurotrophin-3-Mediated Differentiation of Embryonic Stem Cells into Neurons. <i>Tissue Engineering - Part A</i> , 2009, 15, 307-318.	1.6	13
72	Conductive Core-Sheath Nanofibers and Their Potential Application in Neural Tissue Engineering. <i>Advanced Functional Materials</i> , 2009, 19, 2312-2318.	7.8	305

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73	Controlled release of glial-derived neurotrophic factor from fibrin matrices containing an affinity-based delivery system. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 909-918.	2.1	52
74	Enhanced flexor tendon healing through controlled delivery of PDGF-BB. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1209-1215.	1.2	101
75	Controlled release of neurotrophin-3 from fibrin-based tissue engineering scaffolds enhances neural fiber sprouting following subacute spinal cord injury. <i>Biotechnology and Bioengineering</i> , 2009, 104, 1207-1214.	1.7	112
76	Anisotropic mechanical properties of magnetically aligned fibrin gels measured by magnetic resonance elastography. <i>Journal of Biomechanics</i> , 2009, 42, 2047-2053.	0.9	32
77	The differentiation of embryonic stem cells seeded on electrospun nanofibers into neural lineages. <i>Biomaterials</i> , 2009, 30, 354-362.	5.7	420
78	Characterization of a multifunctional PEG-based gene delivery system containing nuclear localization signals and endosomal escape peptides. <i>Acta Biomaterialia</i> , 2009, 5, 854-864.	4.1	61
79	Affinity-based release of glial-derived neurotrophic factor from fibrin matrices enhances sciatic nerve regeneration. <i>Acta Biomaterialia</i> , 2009, 5, 959-968.	4.1	137
80	Neurite Outgrowth on Nanofiber Scaffolds with Different Orders, Structures, and Surface Properties. <i>ACS Nano</i> , 2009, 3, 1151-1159.	7.3	236
81	The effect of endosomal escape peptides on <i>in vitro</i> gene delivery of polyethylene glycol-based vehicles. <i>Journal of Gene Medicine</i> , 2008, 10, 1134-1149.	1.4	59
82	Release rate controls biological activity of nerve growth factor released from fibrin matrices containing affinity-based delivery systems. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 84A, 300-312.	2.1	44
83	Cell therapy for spinal cord regeneration. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 263-276.	6.6	97
84	The effect of controlled growth factor delivery on embryonic stem cell differentiation inside fibrin scaffolds. <i>Stem Cell Research</i> , 2008, 1, 205-218.	0.3	107
85	Controlled-Release Kinetics and Biologic Activity of Platelet-Derived Growth Factor-BB for Use in Flexor Tendon Repair. <i>Journal of Hand Surgery</i> , 2008, 33, 1548-1557.	0.7	55
86	Synthesis and Characterization of Four-Arm Poly(ethylene glycol)-Based Gene Delivery Vehicles Coupled to Integrin and DNA-Binding Peptides. <i>Molecular Pharmaceutics</i> , 2008, 5, 140-150.	2.3	31
87	The Early Effects of Sustained Platelet-Derived Growth Factor Administration on the Functional and Structural Properties of Repaired Intrasynovial Flexor Tendons: An <i>In Vivo</i> Biomechanic Study at 3 Weeks in Canines. <i>Journal of Hand Surgery</i> , 2007, 32, 373-379.	0.7	66
88	The Effects of Soluble Growth Factors on Embryonic Stem Cell Differentiation Inside of Fibrin Scaffolds. <i>Stem Cells</i> , 2007, 25, 2235-2244.	1.4	101
89	Development of novel poly(ethylene glycol)-based vehicles for gene delivery. <i>Biotechnology and Bioengineering</i> , 2007, 96, 967-976.	1.7	16
90	Rationally designed peptides for controlled release of nerve growth factor from fibrin matrices. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 80A, 13-23.	2.1	74

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91	PDGF-BB released in tendon repair using a novel delivery system promotes cell proliferation and collagen remodeling. <i>Journal of Orthopaedic Research</i> , 2007, 25, 1358-1368.	1.2	135
92	Approaches to neural tissue engineering using scaffolds for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 325-338.	6.6	325
93	Optimization of fibrin scaffolds for differentiation of murine embryonic stem cells into neural lineage cells. <i>Biomaterials</i> , 2006, 27, 5990-6003.	5.7	232
94	Delivery of neurotrophin-3 from fibrin enhances neuronal fiber sprouting after spinal cord injury. <i>Journal of Controlled Release</i> , 2006, 113, 226-235.	4.8	142
95	Effect of controlled delivery of neurotrophin-3 from fibrin on spinal cord injury in a long term model. <i>Journal of Controlled Release</i> , 2006, 116, 204-210.	4.8	86
96	Development of rationally designed affinity-based drug delivery systems. <i>Acta Biomaterialia</i> , 2005, 1, 101-113.	4.1	69
97	Controlled release of neurotrophin-3 from fibrin gels for spinal cord injury. <i>Journal of Controlled Release</i> , 2004, 98, 281-294.	4.8	229
98	Controlled release of nerve growth factor enhances sciatic nerve regeneration. <i>Experimental Neurology</i> , 2003, 184, 295-303.	2.0	328
99	Development of growth factor fusion proteins for cell-triggered drug delivery. <i>FASEB Journal</i> , 2001, 15, 1300-1302.	0.2	171
100	Covalently conjugated VEGF-fibrin matrices for endothelialization. <i>Journal of Controlled Release</i> , 2001, 72, 101-113.	4.8	351
101	Controlled release of nerve growth factor from a heparin-containing fibrin-based cell ingrowth matrix. <i>Journal of Controlled Release</i> , 2000, 69, 149-158.	4.8	402
102	Development of fibrin derivatives for controlled release of heparin-binding growth factors. <i>Journal of Controlled Release</i> , 2000, 65, 389-402.	4.8	537
103	Incorporation of heparin-binding peptides into fibrin gels enhances neurite extension: an example of designer matrices in tissue engineering. <i>FASEB Journal</i> , 1999, 13, 2214-2224.	0.2	186