

Robert E Akins

List of Publications by Year in descending order

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81
papers

2,384
citations

304602

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206029

48
g-index

85
all docs

85
docs citations

85
times ranked

2516
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine learning in epigenetic diseases. , 2021, , 513-525.		3
2	Substrate stiffness directs the phenotype and polarization state of cord blood derived macrophages. Acta Biomaterialia, 2021, 122, 220-235.	4.1	19
3	Transcriptional analysis of muscle tissue and isolated satellite cells in spastic cerebral palsy. Developmental Medicine and Child Neurology, 2021, 63, 1213-1220.	1.1	7
4	Resistance to Neuromuscular Blockade by Rocuronium in Surgical Patients with Spastic Cerebral Palsy. Journal of Personalized Medicine, 2021, 11, 765.	1.1	3
5	An Emerging Role for Epigenetics in Cerebral Palsy. Journal of Personalized Medicine, 2021, 11, 1187.	1.1	8
6	Human Adventitial Fibroblast Phenotype Depends on the Progression of Changes in Substrate Stiffness. Advanced Healthcare Materials, 2020, 9, 1901593.	3.9	10
7	Regulation of neovasculogenesis in co-cultures of aortic adventitial fibroblasts and microvascular endothelial cells by cell-cell interactions and TGF- β 2/ALK5 signaling. PLoS ONE, 2020, 15, e0244243.	1.1	2
8	Biomarker Blood Tests for Cerebral Palsy. , 2020, , 339-346.		1
9	Neuromuscular Junction Changes in Spastic Cerebral Palsy. , 2020, , 227-240.		0
10	Spatial Patterning of Molecular Cues and Vascular Cells in Fully Integrated Hydrogel Channels via Interfacial Bioorthogonal Cross-Linking. ACS Applied Materials & Interfaces, 2019, 11, 16402-16411.	4.0	19
11	Biomarker Blood Tests for Cerebral Palsy. , 2019, , 1-8.		0
12	Neuromuscular Junction Changes in Spastic Cerebral Palsy. , 2019, , 1-14.		0
13	Epigenetic machine learning: utilizing DNA methylation patterns to predict spastic cerebral palsy. BMC Bioinformatics, 2018, 19, 225.	1.2	45
14	Aortic adventitial fibroblast sensitivity to mitogen activated protein kinase inhibitors depends on substrate stiffness. Biomaterials, 2017, 137, 1-10.	5.7	14
15	Reduced arterial elasticity due to surgical skeletonization is ameliorated by abluminal PEG hydrogel. Bioengineering and Translational Medicine, 2017, 2, 222-232.	3.9	8
16	Attenuation of Maladaptive Responses in Aortic Adventitial Fibroblasts through Stimuli-Triggered siRNA Release from Lipid-Polymer Nanocomplexes. Advanced Biology, 2017, 1, 1700099.	3.0	5
17	Motor unit diversity during elbow flexion. , 2017, , .		0
18	Fetal Rat Gubernaculum Mesenchymal Cells Adopt Myogenic and Myofibroblast-Like Phenotypes. Journal of Urology, 2016, 196, 270-278.	0.2	6

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19	Resilin-PEG Hybrid Hydrogels Yield Degradable Elastomeric Scaffolds with Heterogeneous Microstructure. <i>Biomacromolecules</i> , 2016, 17, 128-140.	2.6	42
20	Polygenic inheritance of cryptorchidism susceptibility in the LE/orl rat. <i>Molecular Human Reproduction</i> , 2016, 22, 18-34.	1.3	9
21	Decreasing matrix modulus of PEG hydrogels induces a vascular phenotype in human cord blood stem cells. <i>Biomaterials</i> , 2015, 62, 24-34.	5.7	20
22	Phenotype Specific Association of the TGFBR3 Locus with Nonsyndromic Cryptorchidism. <i>Journal of Urology</i> , 2015, 193, 1637-1645.	0.2	17
23	Cryptorchidism in the OrL Rat Is Associated with Muscle Patterning Defects in the Fetal Gubernaculum and Altered Hormonal Signaling ¹ . <i>Biology of Reproduction</i> , 2014, 91, 41.	1.2	20
24	Effects of heparin and heparin-binding growth factor on human aortic adventitial fibroblasts (1012.4). <i>FASEB Journal</i> , 2014, 28, 1012.4.	0.2	0
25	Electrospinning Fundamentals and Applications. , 2013, , 332-339.		1
26	Integrated wall stress: a new methodological approach to assess ventricular workload and myocardial contractile reserve. <i>Journal of Translational Medicine</i> , 2013, 11, 183.	1.8	9
27	Neuromotor synapses in Escobar syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2013, 161, 3042-3048.	0.7	14
28	322. <i>Critical Care Medicine</i> , 2013, 41, A75-A76.	0.4	0
29	Disruption of Basal Lamina Components in Neuromotor Synapses of Children with Spastic Quadriplegic Cerebral Palsy. <i>PLoS ONE</i> , 2013, 8, e70288.	1.1	28
30	Reduced Expression of Androgen Receptor and Myosin Heavy Chain mRNA in Cremaster Muscle of Boys with Nonsyndromic Cryptorchidism. <i>Journal of Urology</i> , 2012, 188, 1411-1416.	0.2	5
31	<i>In situ</i> crosslinkable heparin-containing poly(ethylene glycol) hydrogels for sustained anticoagulant release. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2106-2118.	2.1	45
32	Differential effects of substrate modulus on human vascular endothelial, smooth muscle, and fibroblastic cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 1356-1367.	2.1	45
33	Development of a Force-Driven Distractor for Distraction Osteogenesis. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2011, 5, .	0.4	1
34	Using distraction forces to drive an autodistractor during limb lengthening. <i>Medical Engineering and Physics</i> , 2011, 33, 1001-1007.	0.8	8
35	Continuous Force Measurement in Limb Lengthening. <i>Journal of Bioengineering & Biomedical Science</i> , 2011, 01, .	0.2	4
36	Identification of neuromuscular junctions by correlative confocal and transmission electron microscopy. <i>Journal of Neuroscience Methods</i> , 2010, 191, 158-165.	1.3	14

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37	Force feedback in limb lengthening. , 2010, 2010, 5109-12.		1
38	Three-Dimensional Culture Alters Primary Cardiac Cell Phenotype. Tissue Engineering - Part A, 2010, 16, 629-641.	1.6	40
39	Production of heparin-containing hydrogels for modulating cell responses. Acta Biomaterialia, 2009, 5, 865-875.	4.1	92
40	Ultrafast Protein Determinations Using Microwave Enhancement. Springer Protocols, 2009, , 25-34.	0.1	2
41	Cetyltrimethylammonium Bromide Discontinuous Gel Electrophoresis of Proteins. Springer Protocols, 2009, , 221-238.	0.1	1
42	Half-Logistic Time Constants as Inotropic and Lusitropic Indices for Four Sequential Phases of Isometric Tension Curves in Isolated Rabbit and Mouse Papillary Muscles. International Heart Journal, 2009, 50, 389-404.	0.5	7
43	Characterization of electrospun poly(N-isopropyl acrylamide) fibers. Polymer, 2008, 49, 4025-4032.	1.8	76
44	Culture on electrospun polyurethane scaffolds decreases atrial natriuretic peptide expression by cardiomyocytes in vitro. Biomaterials, 2008, 29, 4783-4791.	5.7	98
45	C Histomorphology of neuromuscular junction in Duchenne muscular dystrophy. Paediatric Anaesthesia, 2008, 18, 256-259.	0.6	14
46	Altered Expression of Muscle- and Cytoskeleton-Related Genes in a Rat Strain With Inherited Cryptorchidism. Journal of Andrology, 2008, 29, 352-366.	2.0	36
47	Half-logistic time constant: a more reliable lusitropic index than monoexponential time constant regardless of temperature in canine left ventricle. Canadian Journal of Physiology and Pharmacology, 2008, 86, 78-87.	0.7	5
48	Optimizing Limb Lengthening Using an Autodistractor and Force Measurement. , 2008, , .		0
49	Growth and Development in a Heliox Incubator Environment: A Long-Term Safety Study. Neonatology, 2007, 91, 28-35.	0.9	8
50	Gene Expression Profile of Bioreactor-Cultured Cardiac Cells: Activation of Morphogenetic Pathways for Tissue Engineering. DNA and Cell Biology, 2007, 26, 425-434.	0.9	11
51	Characterization of Intracellular Ca ²⁺ Transient by the Hybrid Logistic Function in Aequorin-Injected Rabbit and Mouse Papillary Muscles. Journal of Physiological Sciences, 2007, 57, 349-359.	0.9	6
52	Surgery and Anesthesia for Children who have Cerebral Palsy. Anesthesiology Clinics, 2005, 23, 733-743.	1.4	25
53	Dysmorphic neuromuscular junctions associated with motor ability in cerebral palsy. Muscle and Nerve, 2005, 32, 626-632.	1.0	29
54	Exogenous metalloporphyrins alter the organization and function of cultured neonatal rat heart cells via modulation of heme oxygenase activity. Journal of Cellular Physiology, 2004, 201, 26-34.	2.0	8

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55	Tissue Engineering a Heart: Critical Issues. , 2003, , 139-145.		0
56	Cetyltrimethylammonium Bromide Discontinuous Gel Electrophoresis of Proteins: M _r -Based Separation of Proteins with Retained Native Activity. , 2002, , 87-102.		1
57	Ultrafast Protein Determinations Using Microwave Enhancement. , 2002, , 23-30.		0
58	Identification of Nucleic Acid Binding Proteins Using Nondenaturing Sodium Decyl Sulfate Polyacrylamide Gel Electrophoresis (SDecS-PAGE). , 2002, , 81-86.		1
59	Neuromuscular Junctions in Cerebral Palsy. Anesthesiology, 2002, 96, 330-335.	1.3	36
60	Can Tissue Engineering Mend Broken Hearts?. Circulation Research, 2002, 90, 120-122.	2.0	41
61	Cardiac Tissue. , 2002, , 915-922.		3
62	Can tissue engineering mend broken hearts?. Circulation Research, 2002, 90, 120-2.	2.0	10
63	Room 220-222, 10/16/2000 9: 00 AM - 10: 30 AM (PD) Neuromuscular Junction in Cerebral Palsy. Presence of Extrajunctional Acetylcholine Receptors. Anesthesiology, 2000, 93, A-1306.	1.3	1
64	Isolated pancreatic amylase deficiency: Probable error in maturation. Journal of Pediatrics, 2000, 136, 844-846.	0.9	9
65	Isolated pancreatic amylase deficiency: Probable error in maturation. Journal of Pediatrics, 2000, 136, 0844-0846.	0.9	2
66	Cardiac Organogenesis in Vitro: Reestablishment of Three-Dimensional Tissue Architecture by Dissociated Neonatal Rat Ventricular Cells. Tissue Engineering, 1999, 5, 103-118.	4.9	174
67	Influence of calcium on proliferation and phenotype alteration of cardiomyocyte in vitro. , 1998, 177, 289-298.		3
68	Neonatal rat heart cells cultured in simulated microgravity. In Vitro Cellular and Developmental Biology - Animal, 1997, 33, 337-343.	0.7	62
69	Atrial natriuretic peptide accelerates proliferation of chick embryonic cardiomyocytes in vitro. Differentiation, 1996, 61, 1-11.	1.0	36
70	Ultrafast Protein Determinations Using Microwave Enhancement. Springer Protocols, 1996, , 21-28.	0.1	0
71	Cetyltrimethylammonium Bromide Discontinuous Gel Electrophoresis of Proteins. Springer Protocols, 1996, , 67-81.	0.1	0
72	Ultrafast protein determinations using microwave enhancement. Molecular Biotechnology, 1995, 4, 17-24.	1.3	13

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73	Separation of proteins using cetyltrimethylammonium bromide discontinuous gel electrophoresis. <i>Molecular Biotechnology</i> , 1994, 1, 211-228.	1.3	9
74	Transepithelial calcium transport in the chick chorioallantoic membrane. I. Isolation and characterization of chorionic ectoderm cells. <i>Journal of Cell Science</i> , 1993, 105, 369-379.	1.2	25
75	Transepithelial calcium transport in the chick chorioallantoic membrane. II. Compartmentalization of calcium during uptake. <i>Journal of Cell Science</i> , 1993, 105, 381-388.	1.2	22
76	Cetyltrimethylammonium bromide discontinuous gel electrophoresis: Mr-based separation of proteins with retention of enzymatic activity. <i>Analytical Biochemistry</i> , 1992, 202, 172-178.	1.1	44
77	Alterations in cellular calcium handling as a result of systemic calcium deficiency in the developing chick embryo: II. Ventricular myocytes. <i>Journal of Cellular Physiology</i> , 1992, 153, 636-644.	2.0	4
78	Bisphosphonate action. Alendronate localization in rat bone and effects on osteoclast ultrastructure.. <i>Journal of Clinical Investigation</i> , 1991, 88, 2095-2105.	3.9	878
79	Experimental studies on cultured, shell-less fowl embryos: calcium transport, skeletal development, and cardio-vascular functions. , 1991, , 419-434.		23
80	Retrograde-Assisted Fiberoptic Tracheal Intubation in Children With Difficult Airways. <i>Anesthesia and Analgesia</i> , 1991, 73, 660-664.	1.1	46
81	<i>In vitro</i> study of placental trophoblast calcium uptake using JEG-3 human choriocarcinoma cells. <i>Journal of Cell Science</i> , 1991, 98, 333-342.	1.2	46