

David Gardiner

List of Publications by Year in descending order

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73
papers

4,412
citations

81743

39
h-index

110170

64
g-index

73
all docs

73
docs citations

73
times ranked

2635
citing authors

#	ARTICLE	IF	CITATIONS
1	A stepwise model system for limb regeneration. <i>Developmental Biology</i> , 2004, 270, 135-145.	0.9	283
2	Conversion by retinoic acid of anterior cells into ZPA cells in the chick wing bud. <i>Nature</i> , 1991, 350, 81-83.	13.7	225
3	Microarray and cDNA sequence analysis of transcription during nerve-dependent limb regeneration. <i>BMC Biology</i> , 2009, 7, 1.	1.7	203
4	Vertebrate limb regeneration and the origin of limb stem cells. <i>International Journal of Developmental Biology</i> , 2002, 46, 887-96.	0.3	170
5	The axolotl limb blastema: cellular and molecular mechanisms driving blastema formation and limb regeneration in tetrapods. <i>Regeneration (Oxford, England)</i> , 2015, 2, 54-71.	6.3	156
6	Retinoic acid, local cell-cell interactions, and pattern formation in vertebrate limbs. <i>Developmental Biology</i> , 1992, 152, 1-25.	0.9	152
7	Expression of Mmp-9 and related matrix metalloproteinase genes during axolotl limb regeneration. <i>Developmental Dynamics</i> , 1999, 216, 2-9.	0.8	128
8	Neurotrophic regulation of epidermal dedifferentiation during wound healing and limb regeneration in the axolotl (<i>Ambystoma mexicanum</i>). <i>Developmental Biology</i> , 2008, 319, 321-335.	0.9	119
9	Nerve-induced ectopic limb blastemas in the axolotl are equivalent to amputation-induced blastemas. <i>Developmental Biology</i> , 2007, 312, 231-244.	0.9	118
10	Expression of Msx-2 during development, regeneration, and wound healing in axolotl limbs. , 1998, 282, 715-723.		115
11	Expression of HoxD Genes in Developing and Regenerating Axolotl Limbs. <i>Developmental Biology</i> , 1998, 200, 225-233.	0.9	108
12	The migration of dermal cells during blastema formation in axolotls. <i>Developmental Biology</i> , 1986, 118, 488-493.	0.9	100
13	Regrowing Human Limbs. <i>Scientific American</i> , 2008, 298, 56-63.	1.0	100
14	Sonic Hedgehog (shh) expression in developing and regenerating axolotl limbs. <i>The Journal of Experimental Zoology</i> , 1999, 284, 197-206.	1.4	97
15	The molecular basis of amphibian limb regeneration: integrating the old with the new. <i>Seminars in Cell and Developmental Biology</i> , 2002, 13, 345-352.	2.3	91
16	Expression of Hoxb13 and Hoxc10 in Developing and Regenerating Axolotl Limbs and Tails. <i>Developmental Biology</i> , 2001, 229, 396-406.	0.9	88
17	Vaccinia as a Tool for Functional Analysis in Regenerating Limbs: Ectopic Expression of Shh. <i>Developmental Biology</i> , 2000, 218, 199-205.	0.9	86
18	Large scale gene expression profiling during intestine and body wall regeneration in the sea cucumber <i>Apostichopus japonicus</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2011, 6, 195-205.	0.4	85

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19	Gene expression patterns specific to the regenerating limb of the Mexican axolotl. <i>Biology Open</i> , 2012, 1, 937-948.	0.6	84
20	Environmentally induced limb malformations in mink frogs (<i>Rana septentrionalis</i>). <i>The Journal of Experimental Zoology</i> , 1999, 284, 207-216.	1.4	83
21	Genic regions of a large salamander genome contain long introns and novel genes. <i>BMC Genomics</i> , 2009, 10, 19.	1.2	81
22	From biomedicine to natural history research: EST resources for ambystomatid salamanders. <i>BMC Genomics</i> , 2004, 5, 54.	1.2	79
23	The Axolotl Model for Regeneration and Aging Research: A Mini-Review. <i>Gerontology</i> , 2011, 57, 565-571.	1.4	78
24	Gene expression during the first 28 days of axolotl limb regeneration I: Experimental design and global analysis of gene expression. <i>Regeneration (Oxford, England)</i> , 2015, 2, 120-136.	6.3	72
25	Positional Information Is Reprogrammed in Blastema Cells of the Regenerating Limb of the Axolotl (<i>Ambystoma mexicanum</i>). <i>PLoS ONE</i> , 2013, 8, e77064.	1.1	66
26	Molecular mechanisms in the control of limb regeneration: the role of homeobox genes. <i>International Journal of Developmental Biology</i> , 1996, 40, 797-805.	0.3	64
27	Limb Development and Regeneration. <i>American Zoologist</i> , 1987, 27, 675-696.	0.7	62
28	Analysis of the expression and function of Wnt α 5a and Wnt α 5b in developing and regenerating axolotl (<i>Ambystoma mexicanum</i>) limbs. <i>Development Growth and Differentiation</i> , 2008, 50, 289-297.	0.6	62
29	Activation of germline-specific genes is required for limb regeneration in the Mexican axolotl. <i>Developmental Biology</i> , 2012, 370, 42-51.	0.9	60
30	Positional information in axolotl and mouse limb extracellular matrix is mediated via heparan sulfate and fibroblast growth factor during limb regeneration in the axolotl (<i>Ambystoma mexicanum</i>). <i>Regeneration (Oxford, England)</i> , 2015, 2, 182-201.	6.3	59
31	Nerve dependency of regeneration: the role of Distal-less and FGF signaling in amphibian limb regeneration. <i>Development (Cambridge)</i> , 1996, 122, 3487-97.	1.2	58
32	Deformed frogs and environmental retinoids. <i>Pure and Applied Chemistry</i> , 2003, 75, 2263-2273.	0.9	57
33	Neurotrophic regulation of fibroblast dedifferentiation during limb skeletal regeneration in the axolotl (<i>Ambystoma mexicanum</i>). <i>Developmental Biology</i> , 2010, 337, 444-457.	0.9	54
34	Regulation of dermal fibroblast dedifferentiation and redifferentiation during wound healing and limb regeneration in the Axolotl. <i>Development Growth and Differentiation</i> , 2008, 50, 743-754.	0.6	53
35	Cartilage and bone cells do not participate in skeletal regeneration in <i>Ambystoma mexicanum</i> limbs. <i>Developmental Biology</i> , 2016, 416, 26-33.	0.9	53
36	Conserved Vertebrate Chromosome Segments in the Large Salamander Genome. <i>Genetics</i> , 2001, 158, 735-746.	1.2	47

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37	Towards a functional analysis of limb regeneration. <i>Seminars in Cell and Developmental Biology</i> , 1999, 10, 385-393.	2.3	46
38	Ontogenetic Decline of Regenerative Ability and the Stimulation of Human Regeneration. <i>Rejuvenation Research</i> , 2005, 8, 141-153.	0.9	45
39	Cell Cycle Length Affects Gene Expression and Pattern Formation in Limbs. <i>Developmental Biology</i> , 1997, 189, 13-21.	0.9	44
40	Regulation of HoxA expression in developing and regenerating axolotl limbs. <i>Development (Cambridge)</i> , 1995, 121, 1731-41.	1.2	42
41	<i>Ex vivo</i> generation of a functional and regenerative wound epithelium from axolotl (<i>Ambystoma mexicanum</i>) skin. <i>Development Growth and Differentiation</i> , 2010, 52, 715-724.	0.6	40
42	Coherent Movement of Cell Layers during Wound Healing by Image Correlation Spectroscopy. <i>Biophysical Journal</i> , 2009, 97, 2098-2106.	0.2	38
43	Understanding positional cues in salamander limb regeneration: implications for optimizing cell-based regenerative therapies. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 593-599.	1.2	37
44	Assessing the toxicity and teratogenicity of pond water in north-central minnesota to amphibians. <i>Environmental Science and Pollution Research</i> , 2004, 11, 233-239.	2.7	36
45	Nerve signaling regulates basal keratinocyte proliferation in the blastema apical epithelial cap in the axolotl (<i>Ambystoma mexicanum</i>). <i>Developmental Biology</i> , 2012, 366, 374-381.	0.9	36
46	Retrotransposon long interspersed nucleotide element-1 (LINE-1) is activated during salamander limb regeneration. <i>Development Growth and Differentiation</i> , 2012, 54, 673-685.	0.6	33
47	Position-specific induction of ectopic limbs in non-regenerating blastemas on axolotl forelimbs. <i>Regeneration (Oxford, England)</i> , 2014, 1, 27-34.	6.3	33
48	Regeneration of HoxD Expression Domains during Pattern Regulation in Chick Wing Buds. <i>Developmental Biology</i> , 1994, 161, 504-512.	0.9	31
49	Positional plasticity in regenerating <i>Ambystoma mexicanum</i> limbs is associated with cell proliferation and pathways of cellular differentiation. <i>BMC Developmental Biology</i> , 2015, 15, 45.	2.1	30
50	DNA Methylation Dynamics Regulate the Formation of a Regenerative Wound Epithelium during Axolotl Limb Regeneration. <i>PLoS ONE</i> , 2015, 10, e0134791.	1.1	30
51	Homeobox genes in axolotl lateral line placodes and neuromasts. <i>Development Genes and Evolution</i> , 1997, 207, 287-295.	0.4	28
52	Regulation of proximal-distal intercalation during limb regeneration in the axolotl (<i>Ambystoma</i>)	0.6	28
53	Regeneration of Limb Joints in the Axolotl (<i>Ambystoma mexicanum</i>). <i>PLoS ONE</i> , 2012, 7, e50615.	1.1	28
54	Dermal fibroblasts contribute to multiple tissues in the accessory limb model. <i>Development Growth and Differentiation</i> , 2010, 52, 343-350.	0.6	27

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55	The relationship between growth and pattern formation. <i>Regeneration</i> (Oxford, England), 2016, 3, 103-122.	6.3	26
56	Organization of positional information in the axolotl limb. <i>The Journal of Experimental Zoology</i> , 1989, 251, 47-55.	1.4	21
57	The Role of Nerve Signaling in Limb Genesis and Agenesis During Axolotl Limb Regeneration. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009, 91, 90-98.	1.4	18
58	Characterization of in vitro transcriptional responses of dorsal root ganglia cultured in the presence and absence of blastema cells from regenerating salamander limbs. <i>Regeneration</i> (Oxford, England), 2016, 3, 103-122.	0.8	10
59	Regulation of Axolotl (<i>Ambystoma mexicanum</i>) Limb Blastema Cell Proliferation by Nerves and BMP2 in Organotypic Slice Culture. <i>PLoS ONE</i> , 2015, 10, e0123186.	1.1	16
60	Identification of Heparan-Sulfate Rich Cells in the Loose Connective Tissues of the Axolotl (<i>Ambystoma mexicanum</i>) with the Potential to Mediate Growth Factor Signaling during Regeneration. <i>Regenerative Engineering and Translational Medicine</i> , 2020, 6, 7-17.	1.6	16
61	Environmentally induced limb malformations in mink frogs (<i>Rana septentrionalis</i>). <i>The Journal of Experimental Zoology</i> , 1999, 284, 207-16.	1.4	15
62	Hypothesis: Terminal transverse limb defects with "œnubbins" represent a regenerative process during limb development in human fetuses. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2012, 94, 129-133.	1.6	13
63	Regulation of Regeneration by Heparan Sulfate Proteoglycans in the Extracellular Matrix. <i>Regenerative Engineering and Translational Medicine</i> , 2017, 3, 192-198.	1.6	10
64	Stability of positional identity of axolotl blastema cells in vitro. <i>Roux's Archives of Developmental Biology</i> , 1993, 202, 170-175.	1.2	9
65	The Axolotl Limb Regeneration Model as a Discovery Tool for Engineering the Stem Cell Niche. <i>Current Stem Cell Reports</i> , 2017, 3, 156-163.	0.7	8
66	Homeobox-Containing Genes in Limb Regeneration. , 2007, , 102-110.		5
67	Mouse limb bud cells respond to retinoic acid in vitro with reduced growth. <i>The Journal of Experimental Zoology</i> , 1992, 263, 406-413.	1.4	4
68	Gain-of-Function Assays in the Axolotl (<i>Ambystoma mexicanum</i>) to Identify Signaling Pathways That Induce and Regulate Limb Regeneration. <i>Methods in Molecular Biology</i> , 2013, 1037, 401-417.	0.4	3
69	Histological image data of limb skeletal tissue from larval and adult <i>Ambystoma mexicanum</i> . <i>Data in Brief</i> , 2016, 8, 1206-1208.	0.5	2
70	Expression of Mmp-9 and related matrix metalloproteinase genes during axolotl limb regeneration. , 1999, 216, 2.		1
71	Expression of homeobox genes in limb regeneration. <i>Progress in Clinical and Biological Research</i> , 1993, 383A, 31-40.	0.2	1
72	The small RNA complement of salamander limb regeneration. <i>FASEB Journal</i> , 2012, 26, 952.5.	0.2	0

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73	The role of nerves in the regulation of regeneration. , 2017, , 113-137.		0