David Gardiner

List of Publications by Year
in descending order

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	Identification of Heparan-Sulfate Rich Cells in the Loose Connective Tissues of the Axolotl (Ambystoma mexicanum) with the Potential to Mediate Growth Factor Signaling during Regeneration. Regenerative Engineering and Translational Medicine, 2020, 6, 7-17.	1.6	16
2	Regulation of Regeneration by Heparan Sulfate Proteoglycans in the Extracellular Matrix. Regenerative Engineering and Translational Medicine, 2017, 3, 192-198.	1.6	10
3	The Axolotl Limb Regeneration Model as a Discovery Tool for Engineering the Stem Cell Niche. Current Stem Cell Reports, 2017, 3, 156-163.	0.7	8
4	The role of nerves in the regulation of regeneration. , 2017, , 113-137.		0
5	The relationship between growth and pattern formation. Regeneration (Oxford, England), 2016, 3, 103-122.	6.3	26
6	Histological image data of limb skeletal tissue from larval and adult Ambystoma mexicanum. Data in Brief, 2016, 8, 1206-1208.	0.5	2
7	Cartilage and bone cells do not participate in skeletal regeneration in Ambystoma mexicanum limbs. Developmental Biology, 2016, 416, 26-33.	0.9	53
8	Gene expression during the first 28 days of axolotl limb regeneration I: Experimental design and global analysis of gene expression. Regeneration (Oxford, England), 2015, 2, 120-136.	6.3	72
9	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>). Regeneration (Oxford, England), 2015, 2, 182-201.	6.3	59
10	Positional plasticity in regenerating Amybstoma mexicanum limbs is associated with cell proliferation and pathways of cellular differentiation. BMC Developmental Biology, 2015, 15, 45.	2.1	30
11	Regulation of Axolotl (Ambystoma mexicanum) Limb Blastema Cell Proliferation by Nerves and BMP2 in Organotypic Slice Culture. PLoS ONE, 2015, 10, e0123186.	1.1	16
12	DNA Methylation Dynamics Regulate the Formation of a Regenerative Wound Epithelium during Axolotl Limb Regeneration. PLoS ONE, 2015, 10, e0134791.	1.1	30
13	The axolotl limb blastema: cellular and molecular mechanisms driving blastema formation and limb regeneration in tetrapods. Regeneration (Oxford, England), 2015, 2, 54-71.	6.3	156
14	Understanding positional cues in salamander limb regeneration: implications for optimizing cell-based regenerative therapies. DMM Disease Models and Mechanisms, 2014, 7, 593-599.	1.2	37
15	Characterization of in vitro transcriptional responses of dorsal root ganglia cultured in the presence and absence of blastema cells from regenerating salamander limbs. Regeneration (Oxford,) Tj ETQq1 1 0.784314 rg BT /Overlo	6.3	16
16	Positionâ€specific induction of ectopic limbs in nonâ€regenerating blastemas on axolotl forelimbs. Regeneration (Oxford, England), 2014, 1, 27-34.	6.3	33
17	Gain-of-Function Assays in the Axolotl (Ambystoma mexicanum) to Identify Signaling Pathways That Induce and Regulate Limb Regeneration. Methods in Molecular Biology, 2013, 1037, 401-417.	0.4	3
18	Positional Information Is Reprogrammed in Blastema Cells of the Regenerating Limb of the Axolotl (Ambystoma mexicanum). PLoS ONE, 2013, 8, e77064.	1.1	66

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19	Gene expression patterns specific to the regenerating limb of the Mexican axolotl. Biology Open, 2012, 1, 937-948.	0.6	84
20	Retrotransposon long interspersed nucleotide elementâ€1 (LINEâ€1) is activated during salamander limb regeneration. Development Growth and Differentiation, 2012, 54, 673-685.	0.6	33
21	Activation of germline-specific genes is required for limb regeneration in the Mexican axolotl. Developmental Biology, 2012, 370, 42-51.	0.9	60
22	Regeneration of Limb Joints in the Axolotl (Ambystoma mexicanum). PLoS ONE, 2012, 7, e50615.	1.1	28
23	Hypothesis: Terminal transverse limb defects with â€œnubbinsâ€• represent a regenerative process during limb development in human fetuses. Birth Defects Research Part A: Clinical and Molecular Teratology, 2012, 94, 129-133.	1.6	13
24	Nerve signaling regulates basal keratinocyte proliferation in the blastema apical epithelial cap in the axolotl (Ambystoma mexicanum). Developmental Biology, 2012, 366, 374-381.	0.9	36
25	The small RNA complement of salamander limb regeneration. FASEB Journal, 2012, 26, 952.5.	0.2	0
26	Large scale gene expression profiling during intestine and body wall regeneration in the sea cucumber Apostichopus japonicus. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2011, 6, 195-205.	0.4	85
27	The Axolotl Model for Regeneration and Aging Research: A Mini-Review. Gerontology, 2011, 57, 565-571.	1.4	78
28	Dermal fibroblasts contribute to multiple tissues in the accessory limb model. Development Growth and Differentiation, 2010, 52, 343-350.	0.6	27
29	<i>Ex vivo</i> generation of a functional and regenerative wound epithelium from axolotl (<i>Ambystoma mexicanum</i>) skin. Development Growth and Differentiation, 2010, 52, 715-724.	0.6	40
30	Regulation of proximalâ€distal intercalation during limb regeneration in the axolotl (<i>Ambystoma) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	28
31	Neurotrophic regulation of fibroblast dedifferentiation during limb skeletal regeneration in the axolotl (Ambystoma mexicanum). Developmental Biology, 2010, 337, 444-457.	0.9	54
32	The Role of Nerve Signaling in Limb Genesis and Agenesis During Axolotl Limb Regeneration. Journal of Bone and Joint Surgery - Series A, 2009, 91, 90-98.	1.4	18
33	Genic regions of a large salamander genome contain long introns and novel genes. BMC Genomics, 2009, 10, 19.	1.2	81
34	Microarray and cDNA sequence analysis of transcription during nerve-dependent limb regeneration. BMC Biology, 2009, 7, 1.	1.7	203
35	Coherent Movement of Cell Layers during Wound Healing by Image Correlation Spectroscopy. Biophysical Journal, 2009, 97, 2098-2106.	0.2	38
36	Regrowing Human Limbs. Scientific American, 2008, 298, 56-63.	1.0	100

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37	Analysis of the expression and function of Wntâ€5a and Wntâ€5b in developing and regenerating axolotl (<i>Ambystoma mexicanum</i>) limbs. Development Growth and Differentiation, 2008, 50, 289-297.	0.6	62
38	Regulation of dermal fibroblast dedifferentiation and redifferentiation during wound healing and limb regeneration in the Axolotl. Development Growth and Differentiation, 2008, 50, 743-754.	0.6	53
39	Neurotrophic regulation of epidermal dedifferentiation during wound healing and limb regeneration in the axolotl (Ambystoma mexicanum). Developmental Biology, 2008, 319, 321-335.	0.9	119
40	Nerve-induced ectopic limb blastemas in the axolotl are equivalent to amputation-induced blastemas. Developmental Biology, 2007, 312, 231-244.	0.9	118
41	Homeobox-Containing Genes in Limb Regeneration. , 2007, , 102-110.		5
42	Ontogenetic Decline of Regenerative Ability and the Stimulation of Human Regeneration. Rejuvenation Research, 2005, 8, 141-153.	0.9	45
43	From biomedicine to natural history research: EST resources for ambystomatid salamanders. BMC Genomics, 2004, 5, 54.	1.2	79
44	Assessing the toxicity and teratogenicity of pond water in north-central minnesota to amphibians. Environmental Science and Pollution Research, 2004, 11, 233-239.	2.7	36
45	A stepwise model system for limb regeneration. Developmental Biology, 2004, 270, 135-145.	0.9	283
46	Deformed frogs and environmental retinoids. Pure and Applied Chemistry, 2003, 75, 2263-2273.	0.9	57
47	The molecular basis of amphibian limb regeneration: integrating the old with the new. Seminars in Cell and Developmental Biology, 2002, 13, 345-352.	2.3	91
48	Vertebrate limb regeneration and the origin of limb stem cells. International Journal of Developmental Biology, 2002, 46, 887-96.	0.3	170
49	Expression of Hoxb13 and Hoxc10 in Developing and Regenerating Axolotl Limbs and Tails. Developmental Biology, 2001, 229, 396-406.	0.9	88
50	Conserved Vertebrate Chromosome Segments in the Large Salamander Genome. Genetics, 2001, 158, 735-746.	1.2	47
51	Vaccinia as a Tool for Functional Analysis in Regenerating Limbs: Ectopic Expression of Shh. Developmental Biology, 2000, 218, 199-205.	0.9	86
52	Expression ofMmp-9 and related matrix metalloproteinase genes during axolotl limb regeneration. Developmental Dynamics, 1999, 216, 2-9.	0.8	128
53	Sonic Hedgehog (shh) expression in developing and regenerating axolotl limbs. The Journal of Experimental Zoology, 1999, 284, 197-206.	1.4	97
54	Environmentally induced limb malformations in mink frogs (Rana septentrionalis). The Journal of Experimental Zoology, 1999, 284, 207-216.	1.4	83

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55	Towards a functional analysis of limb regeneration. Seminars in Cell and Developmental Biology, 1999, 10, 385-393.	2.3	46
56	Environmentally induced limb malformations in mink frogs (Rana septentrionalis). The Journal of Experimental Zoology, 1999, 284, 207-16.	1.4	15
57	Expression of Mmp-9 and related matrix metalloproteinase genes during axolotl limb regeneration. , 1999, 216, 2.		1
58	Expression ofMsx-2 during development, regeneration, and wound healing in axolotl limbs. , 1998, 282, 715-723.		115
59	Expression ofHoxDGenes in Developing and Regenerating Axolotl Limbs. Developmental Biology, 1998, 200, 225-233.	0.9	108
60	Cell Cycle Length Affects Gene Expression and Pattern Formation in Limbs. Developmental Biology, 1997, 189, 13-21.	0.9	44
61	Homeobox genes in axolotl lateral line placodes and neuromasts. Development Genes and Evolution, 1997, 207, 287-295.	0.4	28
62	Molecular mechanisms in the control of limb regeneration: the role of homeobox genes. International Journal of Developmental Biology, 1996, 40, 797-805.	0.3	64
63	Nerve dependency of regeneration: the role of Distal-less and FGF signaling in amphibian limb regeneration. Development (Cambridge), 1996, 122, 3487-97.	1.2	58
64	Regulation of HoxA expression in developing and regenerating axolotl limbs. Development (Cambridge), 1995, 121, 1731-41.	1.2	42
65	Regeneration of HoxD Expression Domains during Pattern Regulation in Chick Wing Buds. Developmental Biology, 1994, 161, 504-512.	0.9	31
66	Stability of positional identity of axolotl blastema cells in vitro. Roux's Archives of Developmental Biology, 1993, 202, 170-175.	1.2	9
67	Expression of homeobox genes in limb regeneration. Progress in Clinical and Biological Research, 1993, 383A, 31-40.	0.2	1
68	Retinoic acid, local cell-cell interactions, and pattern formation in vertebrate limbs. Developmental Biology, 1992, 152, 1-25.	0.9	152
69	Mouse limb bud cells respond to retinoic acid in vitro with reduced growth. The Journal of Experimental Zoology, 1992, 263, 406-413.	1.4	4
70	Conversion by retinoic acid of anterior cells into ZPA cells in the chick wing bud. Nature, 1991, 350, 81-83.	13.7	225
71	Organization of positional information in the axolotl limb. The Journal of Experimental Zoology, 1989, 251, 47-55.	1.4	21
72	Limb Development and Regeneration. American Zoologist, 1987, 27, 675-696.	0.7	62

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73	The migration of dermal cells during blastema formation in axolotls. Developmental Biology, 1986, 118, 488-493.	0.9	100