

Alexandra L Joyner

List of Publications by Year in descending order

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86
papers

12,876
citations

44069

48
h-index

58581

82
g-index

131
all docs

131
docs citations

131
times ranked

12836
citing authors

#	ARTICLE	IF	CITATIONS
1	A mouse model of Greig cephalo-“polysyndactyly syndrome: the extra-“toes mutation contains an intragenic deletion of the Gli3 gene. <i>Nature Genetics</i> , 1993, 3, 241-246.	21.4	669
2	In vivo analysis of quiescent adult neural stem cells responding to Sonic hedgehog. <i>Nature</i> , 2005, 437, 894-897.	27.8	636
3	Essential role of Mash-2 in extraembryonic development. <i>Nature</i> , 1994, 371, 333-336.	27.8	588
4	<i>Gli2</i> , but not <i>Gli1</i> , is required for initial Shh signaling and ectopic activation of the Shh pathway. <i>Development (Cambridge)</i> , 2002, 129, 4753-4761.	2.5	544
5	Whole-genome sequencing identifies EN1 as a determinant of bone density and fracture. <i>Nature</i> , 2015, 526, 112-117.	27.8	483
6	Dynamic Changes in the Response of Cells to Positive Hedgehog Signaling during Mouse Limb Patterning. <i>Cell</i> , 2004, 118, 505-516.	28.9	476
7	Sonic hedgehog Signaling Regulates Gli2 Transcriptional Activity by Suppressing Its Processing and Degradation. <i>Molecular and Cellular Biology</i> , 2006, 26, 3365-3377.	2.3	459
8	Expression of Three Mouse Homologs of the Drosophila Segment Polarity Gene cubitus interruptus, Gli, Gli-2, and Gli-3, in Ectoderm- and Mesoderm-Derived Tissues Suggests Multiple Roles during Postimplantation Development. <i>Developmental Biology</i> , 1994, 162, 402-413.	2.0	439
9	All Mouse Ventral Spinal Cord Patterning by Hedgehog Is Gli Dependent and Involves an Activator Function of Gli3. <i>Developmental Cell</i> , 2004, 6, 103-115.	7.0	399
10	Nerve-Derived Sonic Hedgehog Defines a Niche for Hair Follicle Stem Cells Capable of Becoming Epidermal Stem Cells. <i>Cell Stem Cell</i> , 2011, 8, 552-565.	11.1	395
11	Dynamic expression of the murine Achaete-Scute homologue Mash-1 in the developing nervous system. <i>Mechanisms of Development</i> , 1993, 42, 171-185.	1.7	389
12	Morphogen to mitogen: the multiple roles of hedgehog signalling in vertebrate neural development. <i>Nature Reviews Neuroscience</i> , 2006, 7, 772-783.	10.2	375
13	<i>Gli2</i> , but not <i>Gli1</i> , is required for initial Shh signaling and ectopic activation of the Shh pathway. <i>Development (Cambridge)</i> , 2002, 129, 4753-61.	2.5	360
14	Genomic imprinting of Mash2, a mouse gene required for trophoblast development. <i>Nature Genetics</i> , 1995, 9, 235-242.	21.4	359
15	Morphology, Molecular Codes, and Circuitry Produce the Three-Dimensional Complexity of the Cerebellum. <i>Annual Review of Cell and Developmental Biology</i> , 2007, 23, 549-577.	9.4	346
16	Consensus Paper: Cerebellar Development. <i>Cerebellum</i> , 2016, 15, 789-828.	2.5	337
17	Roles for Hedgehog signaling in adult organ homeostasis and repair. <i>Development (Cambridge)</i> , 2014, 141, 3445-3457.	2.5	328
18	Childhood cerebellar tumours mirror conserved fetal transcriptional programs. <i>Nature</i> , 2019, 572, 67-73.	27.8	293

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19	Two lineage boundaries coordinate vertebrate apical ectodermal ridge formation. <i>Genes and Development</i> , 2000, 14, 1377-1389.	5.9	284
20	Cell Behaviors and Genetic Lineages of the Mesencephalon and Rhombomere 1. <i>Neuron</i> , 2004, 43, 345-357.	8.1	265
21	The level of sonic hedgehog signaling regulates the complexity of cerebellar foliation. <i>Development (Cambridge)</i> , 2006, 133, 1811-1821.	2.5	253
22	Spatial pattern of sonic hedgehog signaling through Gli genes during cerebellum development. <i>Development (Cambridge)</i> , 2004, 131, 5581-5590.	2.5	244
23	<i>Gli1</i> can rescue the in vivo function of <i>Gli2</i> . <i>Development (Cambridge)</i> , 2001, 128, 5161-5172.	2.5	243
24	Production of a mutation in mouse En-2 gene by homologous recombination in embryonic stem cells. <i>Nature</i> , 1989, 338, 153-156.	27.8	210
25	Cerebellum morphogenesis: the foliation pattern is orchestrated by multi-cellular anchoring centers. <i>Neural Development</i> , 2007, 2, 26.	2.4	206
26	Genetic inducible fate mapping in mouse: Establishing genetic lineages and defining genetic neuroanatomy in the nervous system. <i>Developmental Dynamics</i> , 2006, 235, 2376-2385.	1.8	173
27	Morphogenetic and Cellular Movements that Shape the Mouse Cerebellum. <i>Neuron</i> , 2005, 45, 27-40.	8.1	167
28	Sonic Hedgehog Regulates Discrete Populations of Astrocytes in the Adult Mouse Forebrain. <i>Journal of Neuroscience</i> , 2010, 30, 13597-13608.	3.6	159
29	Hedgehog signaling regulates the generation of ameloblast progenitors in the continuously growing mouse incisor. <i>Development (Cambridge)</i> , 2010, 137, 3753-3761.	2.5	155
30	Sonic hedgehog regulates Gli activator and repressor functions with spatial and temporal precision in the mid/hindbrain region. <i>Development (Cambridge)</i> , 2006, 133, 1799-1809.	2.5	153
31	Ascl1 Genetics Reveals Insights into Cerebellum Local Circuit Assembly. <i>Journal of Neuroscience</i> , 2011, 31, 11055-11069.	3.6	150
32	CSF-1 controls cerebellar microglia and is required for motor function and social interaction. <i>Journal of Experimental Medicine</i> , 2019, 216, 2265-2281.	8.5	138
33	Pattern Deformities and Cell Loss in Engrailed-2 Mutant Mice Suggest Two Separate Patterning Events during Cerebellar Development. <i>Journal of Neuroscience</i> , 1997, 17, 7881-7889.	3.6	136
34	Engrailed Homeobox Genes Regulate Establishment of the Cerebellar Afferent Circuit Map. <i>Journal of Neuroscience</i> , 2010, 30, 10015-10024.	3.6	118
35	Temporal-spatial changes in Sonic Hedgehog expression and signaling reveal different potentials of ventral mesencephalic progenitors to populate distinct ventral midbrain nuclei. <i>Neural Development</i> , 2011, 6, 29.	2.4	106
36	Genetic subdivision of the tectum and cerebellum into functionally related regions based on differential sensitivity to engrailed proteins. <i>Development (Cambridge)</i> , 2007, 134, 2325-2335.	2.5	93

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37	Titration of GLI3 Repressor Activity by Sonic Hedgehog Signaling Is Critical for Maintaining Multiple Adult Neural Stem Cell and Astrocyte Functions. <i>Journal of Neuroscience</i> , 2013, 33, 17490-17505.	3.6	90
38	MASTR: A Technique for Mosaic Mutant Analysis with Spatial and Temporal Control of Recombination Using Conditional Floxed Alleles in Mice. <i>Cell Reports</i> , 2012, 2, 386-396.	6.4	88
39	Engrailed Homeobox Genes Determine the Organization of Purkinje Cell Sagittal Stripe Gene Expression in the Adult Cerebellum. <i>Journal of Neuroscience</i> , 2008, 28, 12150-12162.	3.6	86
40	Loss of GABAergic neurons in the hippocampus and cerebral cortex of Engrailed-2 null mutant mice: Implications for autism spectrum disorders. <i>Experimental Neurology</i> , 2013, 247, 496-505.	4.1	83
41	Cerebellar granule cell replenishment postinjury by adaptive reprogramming of Nestin+ progenitors. <i>Nature Neuroscience</i> , 2017, 20, 1361-1370.	14.8	82
42	Gli3 coordinates three-dimensional patterning and growth of the tectum and cerebellum by integrating Shh and Fgf8 signaling. <i>Development (Cambridge)</i> , 2008, 135, 2093-2103.	2.5	78
43	The Engrailed homeobox genes determine the different foliation patterns in the vermis and hemispheres of the mammalian cerebellum. <i>Development (Cambridge)</i> , 2010, 137, 519-529.	2.5	77
44	Hedgehog Signaling in Neonatal and Adult Lung. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 48, 703-710.	2.9	68
45	Gene targeting and gene trap screens using embryonic stem cells: New approaches to mammalian development. <i>BioEssays</i> , 1991, 13, 649-656.	2.5	66
46	Limb anteriorâ€“posterior polarity integrates activator and repressor functions of GLI2 as well as GLI3. <i>Developmental Biology</i> , 2012, 370, 110-124.	2.0	62
47	Clonal analysis reveals granule cell behaviors and compartmentalization that determine the folded morphology of the cerebellum. <i>Development (Cambridge)</i> , 2015, 142, 1661-71.	2.5	61
48	Sonic hedgehog signals to multiple prostate stromal stem cells that replenish distinct stromal subtypes during regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20611-20616.	7.1	60
49	Centrosome anchoring regulates progenitor properties and cortical formation. <i>Nature</i> , 2020, 580, 106-112.	27.8	60
50	Regulation of Long Bone Growth in Vertebrates; It Is Time to Catch Up. <i>Endocrine Reviews</i> , 2015, 36, 646-680.	20.1	58
51	Single-cell profiling reveals an endothelium-mediated immunomodulatory pathway in the eye choroid. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	55
52	The engrailed homeobox genes are required in multiple cell lineages to coordinate sequential formation of fissures and growth of the cerebellum. <i>Developmental Biology</i> , 2012, 367, 25-39.	2.0	54
53	4D MEMRI atlas of neonatal FVB/N mouse brain development. <i>NeuroImage</i> , 2015, 118, 49-62.	4.2	50
54	Spatially Restricted and Developmentally Dynamic Expression of Engrailed Genes in Multiple Cerebellar Cell Types. <i>Cerebellum</i> , 2011, 10, 356-372.	2.5	45

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55	Single-Cell Profiling and SCOPE-Seq Reveal Lineage Dynamics of Adult Ventricular-Subventricular Zone Neurogenesis and NOTUM as a Key Regulator. <i>Cell Reports</i> , 2020, 31, 107805.	6.4	44
56	Differential timing of granule cell production during cerebellum development underlies generation of the foliation pattern. <i>Neural Development</i> , 2016, 11, 17.	2.4	39
57	Cell-nonautonomous local and systemic responses to cell arrest enable long-bone catch-up growth in developing mice. <i>PLoS Biology</i> , 2018, 16, e2005086.	5.6	38
58	CSF1R inhibition depletes tumor-associated macrophages and attenuates tumor progression in a mouse sonic Hedgehog-Medulloblastoma model. <i>Oncogene</i> , 2021, 40, 396-407.	5.9	35
59	Lateral cerebellum is preferentially sensitive to high sonic hedgehog signaling and medulloblastoma formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3392-3397.	7.1	34
60	Genetic Fate Mapping Using Site-Specific Recombinases. <i>Methods in Enzymology</i> , 2010, 477, 153-181.	1.0	29
61	Cerebellar nuclei excitatory neurons regulate developmental scaling of presynaptic Purkinje cell number and organ growth. <i>ELife</i> , 2019, 8, .	6.0	28
62	The Engrailed-2 homeobox gene and patterning of spinocerebellar mossy fiber afferents. <i>Developmental Brain Research</i> , 1996, 96, 210-218.	1.7	26
63	Hedgehog signaling in prostate epithelialâ€mesenchymal growth regulation. <i>Developmental Biology</i> , 2015, 400, 94-104.	2.0	26
64	Cerebellar folding is initiated by mechanical constraints on a fluid-like layer without a cellular pre-pattern. <i>ELife</i> , 2019, 8, .	6.0	26
65	Stromal Hedgehog signaling maintains smooth muscle and hampers micro-invasive prostate cancer. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 39-52.	2.4	23
66	Rapid and efficient degradation of endogenous proteins in vivo identifies stage-specific roles of RNA Pol II pausing in mammalian development. <i>Developmental Cell</i> , 2022, 57, 1068-1080.e6.	7.0	21
67	In Vivo Mn-Enhanced MRI for Early Tumor Detection and Growth Rate Analysis in a Mouse Medulloblastoma Model. <i>Neoplasia</i> , 2014, 16, 993-1006.	5.3	19
68	Genetic deletion of genes in the cerebellar rhombic lip lineage can stimulate compensation through adaptive reprogramming of ventricular zone-derived progenitors. <i>Neural Development</i> , 2019, 14, 4.	2.4	18
69	MRI analysis of cerebellar and vestibular developmental phenotypes in <i>Cbx2</i> conditional knockout mice. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1707-1717.	3.0	14
70	Altered paracrine signaling from the injured knee joint impairs postnatal long bone growth. <i>ELife</i> , 2017, 6, .	6.0	11
71	A Mathematical Model of Granule Cell Generation During Mouse Cerebellum Development. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 859-878.	1.9	10
72	A collection of genetic mouse lines and related tools for inducible and reversible intersectional misexpression. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	10

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73	YAP1 is involved in replenishment of granule cell precursors following injury to the neonatal cerebellum. <i>Developmental Biology</i> , 2019, 455, 458-472.	2.0	9
74	Age-dependent dormant resident progenitors are stimulated by injury to regenerate Purkinje neurons. <i>ELife</i> , 2018, 7, .	6.0	9
75	From Cloning Neural Development Genes to Functional Studies in Mice, 30 Years of Advancements. <i>Current Topics in Developmental Biology</i> , 2016, 116, 501-515.	2.2	7
76	Genetic Neuroanatomy. , 2012, , 36-50.		6
77	The Gene Trap Approach in Embryonic Stem Cells: The Potential for Genetic Screens in Mice. <i>Novartis Foundation Symposium</i> , 1992, 165, 277-301.	1.1	5
78	Injury-induced ASCL1 expression orchestrates a transitory cell state required for repair of the neonatal cerebellum. <i>Science Advances</i> , 2021, 7, eabj1598.	10.3	5
79	MEMRI-based imaging pipeline for guiding preclinical studies in mouse models of sporadic medulloblastoma. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 214-227.	3.0	4
80	Conditional loss of Engrailed1/2 in Atoh1 -derived excitatory cerebellar nuclear neurons impairs eupneic respiration in mice. <i>Genes, Brain and Behavior</i> , 2022, 21, e12788.	2.2	4
81	An Sst1 RFLP for the human homeo box-containing geneEN2. <i>Nucleic Acids Research</i> , 1989, 17, 2878-2878.	14.5	3
82	PvuII and RsaI RFLPs for the human homeo box-containing geneEN2. <i>Nucleic Acids Research</i> , 1989, 17, 2879-2879.	14.5	3
83	Cellular and Genetic Programs Underlying Cerebellum Development. <i>Contemporary Clinical Neuroscience</i> , 2017, , 45-65.	0.3	1
84	MRI analysis of cerebellar and vestibular developmental phenotypes in Gbx2 conditional knockout mice. <i>Magnetic Resonance in Medicine</i> , 2013, 70, spcone-spcone.	3.0	0
85	Kathryn Anderson (1952-2020). <i>Cell</i> , 2021, 184, 1123-1126.	28.9	0
86	Basic science under threat: Lessons from the Skirball Institute. <i>Cell</i> , 2022, 185, 755-758.	28.9	0