

Brian Key

List of Publications by Year in descending order

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99
papers

3,287
citations

117571

34
h-index

161767

54
g-index

101
all docs

101
docs citations

101
times ranked

2906
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Galectin-1 in the Developing Mouse Olfactory System. <i>Developmental Biology</i> , 1996, 179, 274-287.	0.9	182
2	Development of P2 Olfactory Glomeruli in P2-Internal Ribosome Entry Site-Tau-LacZ Transgenic Mice. <i>Journal of Neuroscience</i> , 1999, 19, 9856-9864.	1.7	151
3	The Extracellular Matrix Modulates Olfactory Neurite Outgrowth on Ensheathing Cells. <i>Journal of Neuroscience</i> , 1999, 19, 9890-9899.	1.7	114
4	Neogenin interacts with RGMA and Netrin-1 to guide axons within the embryonic vertebrate forebrain. <i>Developmental Biology</i> , 2006, 296, 485-498.	0.9	100
5	Olfactory neurons express a unique glycosylated form of the neural cell adhesion molecule (N-CAM).. <i>Journal of Cell Biology</i> , 1990, 110, 1729-1743.	2.3	97
6	Neogenin: One receptor, many functions. <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 874-878.	1.2	87
7	Motile membrane protrusions regulate cell-cell adhesion and migration of olfactory ensheathing glia. <i>Glia</i> , 2007, 55, 1708-1719.	2.5	87
8	Zebrafish as a model for caveolin-associated muscle disease; caveolin-3 is required for myofibril organization and muscle cell patterning. <i>Human Molecular Genetics</i> , 2005, 14, 1727-1743.	1.4	86
9	Soybean agglutinin binding to the olfactory systems of the rat and mouse. <i>Neuroscience Letters</i> , 1986, 69, 131-136.	1.0	85
10	Delineation of olfactory pathways in the frog nervous system by unique glycoconjugates and N-CAM glycoforms. <i>Neuron</i> , 1991, 6, 381-396.	3.8	84
11	Septal organ of Gr $\frac{1}{4}$ neberg is part of the olfactory system. <i>Journal of Comparative Neurology</i> , 2006, 494, 834-844.	0.9	84
12	Lamellipodia mediate the heterogeneity of central olfactory ensheathing cell interactions. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 1735-1750.	2.4	84
13	Selective binding of soybean agglutinin to the olfactory system of <i>Xenopus</i> . <i>Neuroscience</i> , 1986, 18, 507-515.	1.1	77
14	Distinct subsets of sensory olfactory neurons in mouse: Possible role in the formation of the mosaic olfactory projection. <i>Journal of Comparative Neurology</i> , 1993, 335, 355-368.	0.9	76
15	Welfare of aquatic animals: where things are, where they are going, and what it means for research, aquaculture, recreational angling, and commercial fishing. <i>ICES Journal of Marine Science</i> , 2019, 76, 82-92.	1.2	70
16	Sorting and convergence of primary olfactory axons are independent of the olfactory bulb. <i>Journal of Comparative Neurology</i> , 2003, 464, 131-140.	0.9	63
17	Yap Controls Stem/Progenitor Cell Proliferation in the Mouse Postnatal Epidermis. <i>Journal of Investigative Dermatology</i> , 2013, 133, 1497-1505.	0.3	61
18	Caveolin-1 is required for lateral line neuromast and notochord development. <i>Journal of Cell Science</i> , 2007, 120, 2151-2161.	1.2	60

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19	Stimulation of olfactory ensheathing cell motility enhances olfactory axon growth. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 3233-3247.	2.4	56
20	Axon Navigation in the Mammalian Primary Olfactory Pathway: Where to Next?. <i>Chemical Senses</i> , 2002, 27, 245-260.	1.1	52
21	Zebrafish as an experimental model: strategies for developmental and molecular neurobiology studies. <i>Cytotechnology</i> , 2003, 25, 1-6.	0.7	52
22	Fish do not feel pain and its implications for understanding phenomenal consciousness. <i>Biology and Philosophy</i> , 2015, 30, 149-165.	0.7	50
23	The plant lectin soybean agglutinin binds to the soma, axon and central terminals of a subpopulation of small-diameter primary sensory neurons in the rat and cat. <i>Neuroscience</i> , 1989, 31, 683-695.	1.1	49
24	Identification of cells expressing galectin-1, a galactose-binding receptor, in the rat olfactory system. <i>Journal of Comparative Neurology</i> , 1995, 357, 513-523.	0.9	49
25	Expression of the amyloid protein precursor of Alzheimer's disease in the developing rat olfactory system. <i>Developmental Brain Research</i> , 1995, 88, 87-95.	2.1	48
26	Neogenin and RGMA Control Neural Tube Closure and Neuroepithelial Morphology by Regulating Cell Polarity. <i>Journal of Neuroscience</i> , 2008, 28, 12643-12653.	1.7	48
27	EphA receptors and ephrin-A ligands exhibit highly regulated spatial and temporal expression patterns in the developing olfactory system. <i>Developmental Brain Research</i> , 2002, 138, 1-14.	2.1	45
28	Expression of galectin-1 in the olfactory nerve pathway of rat. <i>Developmental Brain Research</i> , 1999, 117, 171-178.	2.1	43
29	Robo-Slit interactions regulate longitudinal axon pathfinding in the embryonic vertebrate brain. <i>Developmental Biology</i> , 2008, 313, 371-383.	0.9	42
30	Axon Mis-targeting in the Olfactory Bulb During Regeneration of Olfactory Neuroepithelium. <i>Chemical Senses</i> , 2003, 28, 773-779.	1.1	37
31	BOC, brother of CDO, is a dorsoventral axon-guidance molecule in the embryonic vertebrate brain. <i>Journal of Comparative Neurology</i> , 2005, 485, 32-42.	0.9	37
32	Expression of EphA5 during development of the olfactory nerve pathway in rat. <i>Journal of Comparative Neurology</i> , 2000, 416, 540-550.	0.9	36
33	Are Pioneer Axons Guided by Regulatory Gene Expression Domains in the Zebrafish Forebrain? High-Resolution Analysis of the Patterning of the Zebrafish Brain during Axon Tract Formation. <i>Developmental Biology</i> , 2001, 229, 271-286.	0.9	36
34	Development of axon pathways in the zebrafish central nervous system. <i>International Journal of Developmental Biology</i> , 2002, 46, 609-19.	0.3	36
35	Chondroitin Sulfates Modulate Axon Guidance in Embryonic <i>Xenopus</i> Brain. <i>Developmental Biology</i> , 1998, 202, 235-243.	0.9	35
36	Expression and putative role of lactoseries carbohydrates present on NCAM in the rat primary olfactory pathway. <i>Journal of Comparative Neurology</i> , 2004, 475, 289-302.	0.9	35

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37	OMP-ZsGreen fluorescent protein transgenic mice for visualisation of olfactory sensory neurons in vivo and in vitro. <i>Journal of Neuroscience Methods</i> , 2011, 196, 88-98.	1.3	35
38	Multiple axon guidance cues establish the olfactory topographic map: how do these cues interact?. <i>International Journal of Developmental Biology</i> , 2002, 46, 639-47.	0.3	34
39	EphB2 and two of its ligands have dynamic protein expression patterns in the developing olfactory system. <i>Developmental Brain Research</i> , 2001, 126, 43-56.	2.1	33
40	Soybean agglutinin binds to a subpopulation of primary sensory neurones in the cat. <i>Neuroscience Letters</i> , 1988, 86, 257-262.	1.0	32
41	Chemically and morphologically identifiable glomeruli in the rat olfactory bulb. <i>Journal of Comparative Neurology</i> , 2001, 436, 497-507.	0.9	31
42	Olfactory marker protein modulates primary olfactory axon overshooting in the olfactory bulb. <i>Journal of Comparative Neurology</i> , 2005, 488, 61-69.	0.9	30
43	Primary olfactory axons form ectopic glomeruli in mice lacking p75NTR. <i>Journal of Comparative Neurology</i> , 2000, 428, 656-670.	0.9	29
44	Role of acetylcholinesterase in the development of axon tracts within the embryonic vertebrate brain. <i>International Journal of Developmental Neuroscience</i> , 1999, 17, 787-793.	0.7	26
45	Dynamic spatiotemporal expression patterns of neurocan and phosphacan indicate diverse roles in the developing and adult mouse olfactory system. <i>Journal of Comparative Neurology</i> , 2000, 423, 99-111.	0.9	26
46	Expression and role of Roundabout-1 in embryonic <i>Xenopus</i> forebrain. <i>Developmental Dynamics</i> , 2002, 225, 22-34.	0.8	26
47	A zebrafish homologue of deleted in colorectal cancer (zdcc) is expressed in the first neuronal clusters of the developing brain. <i>Mechanisms of Development</i> , 2001, 109, 105-109.	1.7	23
48	Knockdown of zebrafish <i>crim1</i> results in a bent tail phenotype with defects in somite and vascular development. <i>Mechanisms of Development</i> , 2006, 123, 277-287.	1.7	23
49	Immunochemical markers for the frog olfactory neuroepithelium. <i>Developmental Brain Research</i> , 1990, 57, 103-117.	2.1	22
50	Suppression and Overexpression of Adenosylhomocysteine Hydrolase-like Protein 1 (AHCYL1) Influences Zebrafish Embryo Development. <i>Journal of Biological Chemistry</i> , 2006, 281, 22471-22484.	1.6	22
51	Genetic manipulation of blood group carbohydrates alters development and pathfinding of primary sensory axons of the olfactory systems. <i>Developmental Biology</i> , 2006, 298, 470-484.	0.9	20
52	Light-microscopic immunolocalization of fibroblast growth factor-1 and -2 in adult rat kidney. <i>Cell and Tissue Research</i> , 1996, 285, 179-187.	1.5	19
53	Molecular Development of the Olfactory Nerve Pathway. <i>Annals of the New York Academy of Sciences</i> , 1998, 855, 76-82.	1.8	18
54	The sorting behaviour of olfactory and vomeronasal axons during regeneration. <i>Journal of Molecular Histology</i> , 2006, 36, 427-436.	1.0	17

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55	Repulsive guidance molecule A (RGMa). <i>Cell Adhesion and Migration</i> , 2012, 6, 85-90.	1.1	17
56	Epidermal YAP2-5SA-Î ² C Drives Î ² -Catenin Activation to Promote Keratinocyte Proliferation in Mouse Skin In Vivo. <i>Journal of Investigative Dermatology</i> , 2017, 137, 716-726.	0.3	17
57	Designing Brains for Pain: Human to Mollusc. <i>Frontiers in Physiology</i> , 2018, 9, 1027.	1.3	17
58	DCC Plays a Role in Navigation of Forebrain Axons across the Ventral Midbrain Commissure in Embryonic Xenopus. <i>Developmental Biology</i> , 2000, 217, 244-253.	0.9	16
59	Identifying axon guidance defects in the embryonic zebrafish brain. <i>Cytotechnology</i> , 2003, 25, 33-37.	0.7	16
60	Novel Roles of the Chemorepellent Axon Guidance Molecule RGMa in Cell Migration and Adhesion. <i>Molecular and Cellular Biology</i> , 2012, 32, 968-980.	1.1	16
61	Lens structures exist transiently in development of transgenic mice carrying an Î±-crystallin-diphtheria toxin hybrid gene. <i>Experimental Eye Research</i> , 1992, 55, 357-367.	1.2	15
62	Activity-dependent expression of neuronal PAS domain-containing protein 4 (npas4a) in the developing zebrafish brain. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 148.	0.9	15
63	Implantation of a scaffold following bulbectomy induces laminar organization of regenerating olfactory axons. <i>Brain Research</i> , 2006, 1119, 58-64.	1.1	14
64	HuÎ±eGFP mosaic labelling of neurons in zebrafish enables in vivo live cell imaging of growth cones. <i>Journal of Molecular Histology</i> , 2012, 43, 615-623.	1.0	14
65	Lineage specification of neuronal precursors in the mouse spinal cord.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 10079-10083.	3.3	13
66	Distinct expression patterns of syndecans in the embryonic zebrafish brain. <i>Gene Expression Patterns</i> , 2013, 13, 126-132.	0.3	13
67	The Expression Pattern of EVA1C, a Novel Slit Receptor, Is Consistent with an Axon Guidance Role in the Mouse Nervous System. <i>PLoS ONE</i> , 2013, 8, e74115.	1.1	13
68	Frizzled-3a and Wnt-8b genetically interact during forebrain commissural formation in embryonic zebrafish. <i>Brain Research</i> , 2013, 1506, 25-34.	1.1	12
69	Target tissue influences the peripheral trajectory of mouse primary sensory olfactory axons. <i>Journal of Neurobiology</i> , 2004, 61, 175-188.	3.7	11
70	Frizzled-3a and slit2 genetically interact to modulate midline axon crossing in the telencephalon. <i>Mechanisms of Development</i> , 2012, 129, 109-124.	1.7	11
71	Dual roles of the chemorepellent axon guidance molecule RGMa in establishing pioneering axon tracts and neural fate decisions in embryonic vertebrate forebrain. <i>Developmental Neurobiology</i> , 2012, 72, 1458-1470.	1.5	10
72	NetrinÎ±1 is required for efficient neural tube closure. <i>Developmental Neurobiology</i> , 2013, 73, 176-187.	1.5	10

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73	Heterogeneity in olfactory neurons in mouse revealed by differential expression of glycoconjugates. <i>The Histochemical Journal</i> , 2002, 34, 281-289.	0.6	9
74	The cell surface carbohydrate blood group A regulates the selective fasciculation of regenerating accessory olfactory axons. <i>Brain Research</i> , 2008, 1203, 32-38.	1.1	9
75	The E3 ubiquitin ligase Mycbp2 genetically interacts with Robo2 to modulate axon guidance in the mouse olfactory system. <i>Brain Structure and Function</i> , 2014, 219, 861-874.	1.2	9
76	Laminar disorganisation of mitral cells in the olfactory bulb does not affect topographic targeting of primary olfactory axons. <i>Brain Research</i> , 2002, 932, 1-9.	1.1	8
77	Insects cannot tell us anything about subjective experience or the origin of consciousness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E3813-E3813.	3.3	8
78	Expression of glycoproteins in the vomeronasal organ reveals a novel spatiotemporal pattern of sensory neurone maturation. <i>Journal of Neurobiology</i> , 2001, 46, 113-125.	3.7	7
79	Expression of specific glycoconjugates in both primary and secondary olfactory pathways in BALB/C mice. <i>Journal of Comparative Neurology</i> , 2002, 443, 213-225.	0.9	7
80	Correction of aberrant axon growth in the developing mouse olfactory bulb. <i>Molecular and Cellular Neurosciences</i> , 2011, 46, 282-295.	1.0	7
81	Chemoattractant axon guidance cues regulate de novo axon trajectories in the embryonic forebrain of zebrafish. <i>Developmental Biology</i> , 2012, 367, 126-139.	0.9	7
82	Neural Design Principles for Subjective Experience: Implications for Insects. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 658037.	1.0	7
83	Endurance exercise does not modify nerve fibre morphology in the rat soleus nerve. <i>Brain Research</i> , 1984, 297, 137-144.	1.1	6
84	A Model for Axon Navigation Based on Glycodes in the Primary Olfactory System. <i>Chemical Senses</i> , 2005, 30, i123-i124.	1.1	6
85	Growth cone dynamics in the zebrafish embryonic forebrain are regulated by Brother of Cdo. <i>Neuroscience Letters</i> , 2013, 545, 11-16.	1.0	6
86	Problems with equating thermal preference with "emotional fever" and sentience: comment on "Fish can show emotional fever: stress-induced hyperthermia in zebrafish" by Rey et al. (2015). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20160681.	1.2	6
87	Uptake and axonal transport of horseradish peroxidase isoenzymes by different neuronal types. <i>Neuroscience</i> , 1987, 22, 1135-1144.	1.1	5
88	Immunolocalization of fibroblast growth factor-1 and -2 in the embryonic rat kidney. <i>Nephrology</i> , 1996, 2, 167-174.	0.7	5
89	Expression of transforming growth factor- β type II receptor mRNA in embryonic and adult rat kidney. <i>Nephrology</i> , 1995, 1, 547-553.	0.7	4
90	Is absence of evidence of pain ever evidence of absence?. <i>Synthese</i> , 0, , 1.	0.6	4

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91	Role of Galectin-1 in the Olfactory Nervous System.. Trends in Glycoscience and Glycotechnology, 1997, 9, 41-45.	0.0	4
92	A First Principles Approach to Subjective Experience. Frontiers in Systems Neuroscience, 2022, 16, 756224.	1.2	3
93	The shape of the olfactory bulb influences axon targeting. Brain Research, 2007, 1169, 17-23.	1.1	2
94	The carbohydrate CT1 is expressed in topographically fixed glomeruli in the mouse olfactory bulb. Molecular and Cellular Neurosciences, 2011, 48, 9-19.	1.0	1
95	Pragmatic animal welfare is independent of feelings. Science, 2020, 370, 180-180.	6.0	1
96	Development and Regeneration of the Vertebrate Brain. , 2016, , 249-290.		0
97	Developmental biology in Australia and New Zealand. International Journal of Developmental Biology, 2002, 46, 341-51.	0.3	0
98	The emergence of the field of developmental biology in Australia. International Journal of Developmental Biology, 2002, 46, 353-6.	0.3	0
99	Making developmental biology relevant to undergraduates in an era of economic rationalism in Australia. International Journal of Developmental Biology, 2003, 47, 105-15.	0.3	0