

Vania Broccoli

List of Publications by Year in descending order

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121
papers

12,569
citations

28274
55
h-index

24982
109
g-index

129
all docs

129
docs citations

129
times ranked

17267
citing authors

#	ARTICLE	IF	CITATIONS
1	Scn1a gene reactivation after symptom onset rescues pathological phenotypes in a mouse model of Dravet syndrome. <i>Nature Communications</i> , 2022, 13, 161.	12.8	29
2	Administration of aerosolized SARS-CoV-2 to K18-hACE2 mice uncouples respiratory infection from fatal neuroinvasion. <i>Science Immunology</i> , 2022, 7, .	11.9	61
3	SOX9-induced Generation of Functional Astrocytes Supporting Neuronal Maturation in an All-human System. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 1855-1873.	3.8	19
4	Glucocerebrosidase Gene Therapy Induces Alpha-Synuclein Clearance and Neuroprotection of Midbrain Dopaminergic Neurons in Mice and Macaques. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4825.	4.1	18
5	Genetics and gene therapy in Dravet syndrome. <i>Epilepsy and Behavior</i> , 2021, , 108043.	1.7	9
6	Exploiting hiPSCs in Leber's Hereditary Optic Neuropathy (LHON): Present Achievements and Future Perspectives. <i>Frontiers in Neurology</i> , 2021, 12, 648916.	2.4	7
7	SETBP1 accumulation induces P53 inhibition and genotoxic stress in neural progenitors underlying neurodegeneration in Schinzel-Giedion syndrome. <i>Nature Communications</i> , 2021, 12, 4050.	12.8	24
8	The relevance of mitochondrial DNA variants fluctuation during reprogramming and neuronal differentiation of human iPSCs. <i>Stem Cell Reports</i> , 2021, 16, 1953-1967.	4.8	8
9	Microglia-specific overexpression of α -synuclein leads to severe dopaminergic neurodegeneration by phagocytic exhaustion and oxidative toxicity. <i>Nature Communications</i> , 2021, 12, 6237.	12.8	74
10	Case Report: Off-Label Liraglutide Use in Children With Wolfram Syndrome Type 1: Extensive Characterization of Four Patients. <i>Frontiers in Pediatrics</i> , 2021, 9, 755365.	1.9	12
11	Administration of aerosolized SARS-CoV-2 to K18-hACE2 mice uncouples respiratory infection from fatal neuroinvasion. <i>Science Immunology</i> , 2021, , eabl9929.	11.9	3
12	dCas9-Based Scn1a Gene Activation Restores Inhibitory Interneuron Excitability and Attenuates Seizures in Dravet Syndrome Mice. <i>Molecular Therapy</i> , 2020, 28, 235-253.	8.2	135
13	Transdifferentiation of Mouse Embryonic Fibroblasts into Dopaminergic Neurons Reactivates LINE-1 Repetitive Elements. <i>Stem Cell Reports</i> , 2020, 14, 60-74.	4.8	16
14	SULT4A1 Modulates Synaptic Development and Function by Promoting the Formation of PSD-95/NMDAR Complex. <i>Journal of Neuroscience</i> , 2020, 40, 7013-7026.	3.6	11
15	Frataxin gene editing rescues Friedreich's ataxia pathology in dorsal root ganglia organoid-derived sensory neurons. <i>Nature Communications</i> , 2020, 11, 4178.	12.8	42
16	In vivo CRISPRa decreases seizures and rescues cognitive deficits in a rodent model of epilepsy. <i>Brain</i> , 2020, 143, 891-905.	7.6	79
17	Whole brain delivery of an instability-prone Mecp2 transgene improves behavioral and molecular pathological defects in mouse models of Rett syndrome. <i>ELife</i> , 2020, 9, .	6.0	42
18	Stem Cell Modeling of Neuroferritinopathy Reveals Iron as a Determinant of Senescence and Ferroptosis during Neuronal Aging. <i>Stem Cell Reports</i> , 2019, 13, 832-846.	4.8	46

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19	SETD5 Regulates Chromatin Methylation State and Preserves Global Transcriptional Fidelity during Brain Development and Neuronal Wiring. <i>Neuron</i> , 2019, 104, 271-289.e13.	8.1	75
20	Direct Neuronal Reprogramming Reveals Unknown Functions for Known Transcription Factors. <i>Frontiers in Neuroscience</i> , 2019, 13, 283.	2.8	20
21	Reconstitution of the Human Nigro-striatal Pathway on-a-Chip Reveals OPA1-Dependent Mitochondrial Defects and Loss of Dopaminergic Synapses. <i>Cell Reports</i> , 2019, 29, 4646-4656.e4.	6.4	42
22	SCN1A Na ^v 1.1 channelopathies: Mechanisms in expression systems, animal models, and human iPSC models. <i>Epilepsia</i> , 2019, 60, S25-S38.	5.1	35
23	H3K36 Methylation in Neural Development and Associated Diseases. <i>Frontiers in Genetics</i> , 2019, 10, 1291.	2.3	32
24	Pharmacological Inhibition of Necroptosis Protects from Dopaminergic Neuronal Cell Death in Parkinson's Disease Models. <i>Cell Reports</i> , 2018, 22, 2066-2079.	6.4	167
25	Folic Acid Exposure Rescues Spina Bifida Aperta Phenotypes in Human Induced Pluripotent Stem Cell Model. <i>Scientific Reports</i> , 2018, 8, 2942.	3.3	18
26	Cas9/sgRNA selective targeting of the P23H Rhodopsin mutant allele for treating retinitis pigmentosa by intravitreal AAV9.PHP.B-based delivery. <i>Human Molecular Genetics</i> , 2018, 27, 761-779.	2.9	107
27	PRRT2 controls neuronal excitability by negatively modulating Na ⁺ channel 1.2/1.6 activity. <i>Brain</i> , 2018, 141, 1000-1016.	7.6	99
28	Gene therapy approaches in the non-human primate model of Parkinson's disease. <i>Journal of Neural Transmission</i> , 2018, 125, 575-589.	2.8	20
29	mSEL1L deficiency affects vasculogenesis and neural stem cell lineage commitment. <i>Journal of Cellular Physiology</i> , 2018, 233, 3152-3163.	4.1	2
30	Recipes for Making Neurons using Combinatorial Forward Genetics. <i>Cell Stem Cell</i> , 2018, 23, 13-14.	11.1	0
31	SETBP1 induces transcription of a network of development genes by acting as an epigenetic hub. <i>Nature Communications</i> , 2018, 9, 2192.	12.8	66
32	The Tbr2 Molecular Network Controls Cortical Neuronal Differentiation Through Complementary Genetic and Epigenetic Pathways. <i>Cerebral Cortex</i> , 2017, 27, 3378-3396.	2.9	31
33	Human Endometrial Stromal Cells Are Highly Permissive To Productive Infection by Zika Virus. <i>Scientific Reports</i> , 2017, 7, 44286.	3.3	50
34	Two factor-based reprogramming of rodent and human fibroblasts into Schwann cells. <i>Nature Communications</i> , 2017, 8, 14088.	12.8	28
35	Heparin prevents Zika virus induced-cytopathic effects in human neural progenitor cells. <i>Antiviral Research</i> , 2017, 140, 13-17.	4.1	88
36	A Human Bi-specific Antibody against Zika Virus with High Therapeutic Potential. <i>Cell</i> , 2017, 171, 229-241.e15.	28.9	118

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37	AAV-PHP.B-Mediated Global-Scale Expression in the Mouse Nervous System Enables GBA1 Gene Therapy for Wide Protection from Synucleinopathy. <i>Molecular Therapy</i> , 2017, 25, 2727-2742.	8.2	98
38	Reprogramming of somatic cells. <i>Progress in Brain Research</i> , 2017, 230, 53-68.	1.4	7
39	Neuroprotection of Brain Cells by Lipoic Acid Treatment after Cellular Stress. <i>ACS Chemical Neuroscience</i> , 2017, 8, 569-577.	3.5	11
40	Generation of Human Induced Pluripotent Stem Cell-Derived Bona Fide Neural Stem Cells for Ex Vivo Gene Therapy of Metachromatic Leukodystrophy. <i>Stem Cells Translational Medicine</i> , 2017, 6, 352-368.	3.3	63
41	The endoplasmic reticulum-mitochondria interface is perturbed in PARK2 knockout mice and patients with PARK2 mutations. <i>Human Molecular Genetics</i> , 2016, 25, ddw148.	2.9	105
42	MyT1 Counteracts the Neural Progenitor Program to Promote Vertebrate Neurogenesis. <i>Cell Reports</i> , 2016, 17, 469-483.	6.4	56
43	Coenzyme A corrects pathological defects in human neurons of <scp>PANK</scp> 2â€associated neurodegeneration. <i>EMBO Molecular Medicine</i> , 2016, 8, 1197-1211.	6.9	74
44	Rapid and efficient CRISPR/Cas9 gene inactivation in human neurons during human pluripotent stem cell differentiation and direct reprogramming. <i>Scientific Reports</i> , 2016, 6, 37540.	3.3	38
45	<i>MICAL2</i> is a novel human cancer gene controlling mesenchymal to epithelial transition involved in cancer growth and invasion. <i>Oncotarget</i> , 2016, 7, 1808-1825.	1.8	55
46	Direct Conversion of Fibroblasts into Functional Astrocytes by Defined Transcription Factors. <i>Stem Cell Reports</i> , 2015, 4, 25-36.	4.8	194
47	Human induced pluripotent stem cells differentiate into insulin-producing cells able to engraft in vivo. <i>Acta Diabetologica</i> , 2015, 52, 1025-1035.	2.5	33
48	ARX Regulates Cortical Intermediate Progenitor Cell Expansion and Upper Layer Neuron Formation Through Repression of Cdkn1c. <i>Cerebral Cortex</i> , 2015, 25, 322-335.	2.9	56
49	Overcoming the hurdles for a reproducible generation of human functionally mature reprogrammed neurons. <i>Experimental Biology and Medicine</i> , 2015, 240, 787-794.	2.4	10
50	Histone modifications controlling native and induced neural stem cell identity. <i>Current Opinion in Genetics and Development</i> , 2015, 34, 95-101.	3.3	9
51	Rapid Conversion of Fibroblasts into Functional Forebrain GABAergic Interneurons by Direct Genetic Reprogramming. <i>Cell Stem Cell</i> , 2015, 17, 719-734.	11.1	152
52	Mitochondrial iron and energetic dysfunction distinguish fibroblasts and induced neurons from pantothenate kinase-associated neurodegeneration patients. <i>Neurobiology of Disease</i> , 2015, 81, 144-153.	4.4	61
53	Modeling physiological and pathological human neurogenesis in the dish. <i>Frontiers in Neuroscience</i> , 2014, 8, 183.	2.8	31
54	Zrf1 is required to establish and maintain neural progenitor identity. <i>Genes and Development</i> , 2014, 28, 182-197.	5.9	29

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55	Remote control of induced dopaminergic neurons in parkinsonian rats. Journal of Clinical Investigation, 2014, 124, 3215-3229.	8.2	104
56	Oxysterols detour to neurodevelopment. Nature Chemical Biology, 2013, 9, 70-71.	8.0	2
57	Rapid Generation of Functional Dopaminergic Neurons From Human Induced Pluripotent Stem Cells Through a Single-Step Procedure Using Cell Lineage Transcription Factors. Stem Cells Translational Medicine, 2013, 2, 473-479.	3.3	81
58	Human L-ferritin deficiency is characterized by idiopathic generalized seizures and atypical restless leg syndrome. Journal of Experimental Medicine, 2013, 210, 1779-1791.	8.5	39
59	Wnt Signaling Has Opposing Roles in the Developing and the Adult Brain That Are Modulated by Hipk1. Cerebral Cortex, 2012, 22, 2415-2427.	2.9	35
60	Primary Skin Fibroblasts as a Model of Parkinson's Disease. Molecular Neurobiology, 2012, 46, 20-27.	4.0	121
61	CDKL5 ensures excitatory synapse stability by reinforcing NGL-1â€PSD95 interaction in the postsynaptic compartment and is impaired in patient iPSC-derived neurons. Nature Cell Biology, 2012, 14, 911-923.	10.3	231
62	Transplantation of Genetically Corrected Human iPSC-Derived Progenitors in Mice with Limb-Girdle Muscular Dystrophy. Science Translational Medicine, 2012, 4, 140ra89.	12.4	269
63	Importance of Shank3 Protein in Regulating Metabotropic Glutamate Receptor 5 (mGluR5) Expression and Signaling at Synapses. Journal of Biological Chemistry, 2011, 286, 34839-34850.	3.4	180
64	Site-specific integration and tailoring of cassette design for sustainable gene transfer. Nature Methods, 2011, 8, 861-869.	19.0	300
65	Direct generation of functional dopaminergic neurons from mouse and human fibroblasts. Nature, 2011, 476, 224-227.	27.8	941
66	Adult Human Müller Glia Cells Are a Highly Efficient Source of Rod Photoreceptors. Stem Cells, 2011, 29, 344-356.	3.2	122
67	A microRNA-Based System for Selecting and Maintaining the Pluripotent State in Human Induced Pluripotent Stem Cells. Stem Cells, 2011, 29, 1684-1695.	3.2	29
68	Reduced AKT/mTOR signaling and protein synthesis dysregulation in a Rett syndrome animal model. Human Molecular Genetics, 2011, 20, 1182-1196.	2.9	202
69	Setting a highway for converting skin into neurons. Journal of Molecular Cell Biology, 2011, 3, 322-323.	3.3	8
70	GABAergic Neuronal Precursor Grafting: Implications in Brain Regeneration and Plasticity. Neural Plasticity, 2011, 2011, 1-11.	2.2	19
71	Long-term culture and differentiation of CNS precursors derived from anterior human neural rosettes following exposure to ventralizing factors. Experimental Cell Research, 2010, 316, 1148-1158.	2.6	34
72	An ES-Like Pluripotent State in FGF-Dependent Murine iPS cells. PLoS ONE, 2010, 5, e16092.	2.5	17

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73	Tbr2-positive intermediate (basal) neuronal progenitors safeguard cerebral cortex expansion by controlling amplification of pallial glutamatergic neurons and attraction of subpallial GABAergic interneurons. <i>Genes and Development</i> , 2010, 24, 1816-1826.	5.9	94
74	Xenopus Bsx links daily cell cycle rhythms and pineal photoreceptor fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6352-6357.	7.1	22
75	The Apical Complex Couples Cell Fate and Cell Survival to Cerebral Cortical Development. <i>Neuron</i> , 2010, 66, 69-84.	8.1	97
76	CDKL5 influences RNA splicing activity by its association to the nuclear speckle molecular machinery. <i>Human Molecular Genetics</i> , 2009, 18, 4590-4602.	2.9	53
77	Arx acts as a regional key selector gene in the ventral telencephalon mainly through its transcriptional repression activity. <i>Developmental Biology</i> , 2009, 334, 59-71.	2.0	48
78	Efficient Genetic Reprogramming of Unmodified Somatic Neural Progenitors Uncovers the Essential Requirement of Oct4 and Klf4. <i>Stem Cells and Development</i> , 2009, 18, 707-716.	2.1	26
79	FOXC1 Is Responsible for the Congenital Variant of Rett Syndrome. <i>American Journal of Human Genetics</i> , 2008, 83, 89-93.	6.2	366
80	The homeobox gene Arx is a novel positive regulator of embryonic myogenesis. <i>Cell Death and Differentiation</i> , 2008, 15, 94-104.	11.2	28
81	Tbr2 Directs Conversion of Radial Glia into Basal Precursors and Guides Neuronal Amplification by Indirect Neurogenesis in the Developing Neocortex. <i>Neuron</i> , 2008, 60, 56-69.	8.1	344
82	CDKL5 Expression Is Modulated during Neuronal Development and Its Subcellular Distribution Is Tightly Regulated by the C-terminal Tail. <i>Journal of Biological Chemistry</i> , 2008, 283, 30101-30111.	3.4	155
83	Neurons derived from reprogrammed fibroblasts functionally integrate into the fetal brain and improve symptoms of rats with Parkinson's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5856-5861.	7.1	1,129
84	Arx Is a Direct Target of Dlx2 and Thereby Contributes to the Tangential Migration of GABAergic Interneurons. <i>Journal of Neuroscience</i> , 2008, 28, 10674-10686.	3.6	140
85	Magic-Factor 1, a Partial Agonist of Met, Induces Muscle Hypertrophy by Protecting Myogenic Progenitors from Apoptosis. <i>PLoS ONE</i> , 2008, 3, e3223.	2.5	36
86	Necdin mediates skeletal muscle regeneration by promoting myoblast survival and differentiation. <i>Journal of Cell Biology</i> , 2007, 179, 305-319.	5.2	46
87	Inactivation of Arx, the Murine Ortholog of the X-Linked Lissencephaly with Ambiguous Genitalia Gene, Leads to Severe Disorganization of the Ventral Telencephalon with Impaired Neuronal Migration and Differentiation. <i>Journal of Neuroscience</i> , 2007, 27, 4786-4798.	3.6	124
88	Aristaless-related homeobox gene, the gene responsible for West syndrome and related disorders, is a Groucho/transducin-like enhancer of split dependent transcriptional repressor. <i>Neuroscience</i> , 2007, 146, 236-247.	2.3	62
89	FERM protein EPB41L5 is a novel member of the mammalian CRB-MPP5 polarity complex. <i>Experimental Cell Research</i> , 2007, 313, 3959-3970.	2.6	55
90	Embryonic Stem-Derived Versus Somatic Neural Stem Cells: A Comparative Analysis of Their Developmental Potential and Molecular Phenotype. <i>Stem Cells</i> , 2006, 24, 825-834.	3.2	38

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91	Direct Derivation of Neural Rosettes from Cloned Bovine Blastocysts: A Model of Early Neurulation Events and Neural Crest Specification In Vitro. <i>Stem Cells</i> , 2006, 24, 2514-2521.	3.2	46
92	The vertebrate ortholog of <i>Aristaless</i> is regulated by <i>Dlx</i> genes in the developing forebrain. <i>Journal of Comparative Neurology</i> , 2005, 483, 292-303.	1.6	91
93	The simultaneous loss of <i>Arx</i> and <i>Pax4</i> genes promotes a somatostatin-producing cell fate specification at the expense of the $\hat{1}$ - and $\hat{2}$ -cell lineages in the mouse endocrine pancreas. <i>Development (Cambridge)</i> , 2005, 132, 2969-2980.	2.5	203
94	Inactivation of the peroxisomal ABCD2 transporter in the mouse leads to late-onset ataxia involving mitochondria, Golgi and endoplasmic reticulum damage. <i>Human Molecular Genetics</i> , 2005, 14, 3565-3577.	2.9	90
95	CDKL5 belongs to the same molecular pathway of MeCP2 and it is responsible for the early-onset seizure variant of Rett syndrome. <i>Human Molecular Genetics</i> , 2005, 14, 1935-1946.	2.9	279
96	Neuroacanthocytosis: new developments in a neglected group of dementing disorders. <i>Journal of the Neurological Sciences</i> , 2005, 229-230, 171-186.	0.6	77
97	Bsx, an evolutionary conserved Brain Specific homeobox gene expressed in the septum, epiphysis, mammillary bodies and arcuate nucleus. <i>Gene Expression Patterns</i> , 2004, 4, 47-51.	0.8	32
98	Mouse orthologue of ARX, a gene mutated in several X-linked forms of mental retardation and epilepsy, is a marker of adult neural stem cells and forebrain GABAergic neurons. <i>Developmental Dynamics</i> , 2004, 231, 631-639.	1.8	76
99	Axonal degeneration in paraplegin-deficient mice is associated with abnormal mitochondria and impairment of axonal transport. <i>Journal of Clinical Investigation</i> , 2004, 113, 231-242.	8.2	241
100	Axonal degeneration in paraplegin-deficient mice is associated with abnormal mitochondria and impairment of axonal transport. <i>Journal of Clinical Investigation</i> , 2004, 113, 231-242.	8.2	144
101	Role of citron kinase in dendritic morphogenesis of cortical neurons. <i>Brain Research Bulletin</i> , 2003, 60, 319-327.	3.0	18
102	Hypogonadotropic hypogonadism and peripheral neuropathy in <i>Ebf2</i> -null mice. <i>Development (Cambridge)</i> , 2003, 130, 401-410.	2.5	89
103	Mapping Wnt/ $\hat{2}$ -catenin signaling during mouse development and in colorectal tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3299-3304.	7.1	730
104	Location and Size of Dopaminergic and Serotonergic Cell Populations Are Controlled by the Position of the Midbrain-Hindbrain Organizer. <i>Journal of Neuroscience</i> , 2003, 23, 4199-4207.	3.6	133
105	Isolation of <i>Crb1</i> , a mouse homologue of <i>Drosophila crumbs</i> , and analysis of its expression pattern in eye and brain. <i>Mechanisms of Development</i> , 2002, 110, 203-207.	1.7	98
106	<i>Dmbx1</i> is a paired-box containing gene specifically expressed in the caudal most brain structures. <i>Mechanisms of Development</i> , 2002, 114, 219-223.	1.7	18
107	The meso-angioblast: a multipotent, self-renewing cell that originates from the dorsal aorta and differentiates into most mesodermal tissues. <i>Development (Cambridge)</i> , 2002, 129, 2773-2783.	2.5	429
108	<i>Emx2</i> regulates the proliferation of stem cells of the adult mammalian central nervous system. <i>Development (Cambridge)</i> , 2002, 129, 1633-1644.	2.5	115

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109	Cloning and expression of <i>noz1</i> , a zebrafish zinc finger gene related to <i>Drosophila</i> <i>nocA</i> . <i>Mechanisms of Development</i> , 2001, 104, 117-120.	1.7	22
110	<i>Otx</i> genes in brain morphogenesis. <i>Progress in Neurobiology</i> , 2001, 64, 69-95.	5.7	97
111	Defective Neurogenesis in Citron Kinase Knockout Mice by Altered Cytokinesis and Massive Apoptosis. <i>Neuron</i> , 2000, 28, 115-127.	8.1	232
112	MAEG, an EGF-repeat containing gene, is a new marker associated with dermatome specification and morphogenesis of its derivatives. <i>Mechanisms of Development</i> , 2000, 98, 179-182.	1.7	19
113	The caudal limit of <i>Otx2</i> expression positions the isthmus organizer. <i>Nature</i> , 1999, 401, 164-168.	27.8	305
114	1 Body Plan Genes and Human Malformation. <i>Advances in Genetics</i> , 1998, 38, 1-29.	1.8	5
115	Evolution of <i>Emx</i> genes and brain development in vertebrates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1997, 264, 1763-1766.	2.6	21
116	<i>Emx1</i> and <i>Emx2</i> Show Different Patterns of Expression During Proliferation and Differentiation of the Developing Cerebral Cortex in the Mouse. <i>European Journal of Neuroscience</i> , 1996, 8, 1037-1050.	2.6	213
117	Vascular endothelial growth factor messenger ribonucleic acid expression in human ovarian and endometrial cancer. <i>Gynecological Endocrinology</i> , 1996, 10, 375-382.	1.7	35
118	<i>c-otx2</i> is expressed in two different phases of gastrulation and is sensitive to retinoic acid treatment in chick embryo. <i>Mechanisms of Development</i> , 1995, 49, 49-63.	1.7	183
119	<i>Emx</i> and <i>Otx</i> Gene Expression in the Developing Mouse Brain. <i>Novartis Foundation Symposium</i> , 1995, 193, 100-126.	1.1	13
120	Cloning and characterization of a new human <i>Xq13</i> gene, encoding a putative helicase. <i>Human Molecular Genetics</i> , 1994, 3, 1957-1964.	2.9	58
121	<i>Emx</i> and <i>Otx</i> homeobox genes in the developing mouse brain. <i>Journal of Neurobiology</i> , 1993, 24, 1356-1366.	3.6	129