

Roy V Sillitoe

List of Publications by Year in descending order

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95
papers

5,184
citations

101543

36
h-index

106344

65
g-index

141
all docs

141
docs citations

141
times ranked

5926
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Consensus Paper: Cerebellar Development. <i>Cerebellum</i> , 2016, 15, 789-828.	2.5	337
3	Redefining the cerebellar cortex as an assembly of non-uniform Purkinje cell microcircuits. <i>Nature Reviews Neuroscience</i> , 2015, 16, 79-93.	10.2	253
4	Emerging connections between cerebellar development, behaviour and complex brain disorders. <i>Nature Reviews Neuroscience</i> , 2019, 20, 298-313.	10.2	186
5	Patterned Purkinje cell degeneration in mouse models of Niemann-Pick type C disease. <i>Journal of Comparative Neurology</i> , 2003, 456, 279-291.	1.6	185
6	New roles for the cerebellum in health and disease. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 83.	2.5	165
7	Whole-mount Immunohistochemistry: A High-throughput Screen for Patterning Defects in the Mouse Cerebellum. <i>Journal of Histochemistry and Cytochemistry</i> , 2002, 50, 235-244.	2.5	153
8	Cerebellar Modules and Their Role as Operational Cerebellar Processing Units. <i>Cerebellum</i> , 2018, 17, 654-682.	2.5	151
9	Pumilio1 Haploinsufficiency Leads to SCA1-like Neurodegeneration by Increasing Wild-Type Ataxin1 Levels. <i>Cell</i> , 2015, 160, 1087-1098.	28.9	139
10	Genetic silencing of olivocerebellar synapses causes dystonia-like behaviour in mice. <i>Nature Communications</i> , 2017, 8, 14912.	12.8	125
11	Development of the cerebellum: from gene expression patterns to circuit maps. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013, 2, 149-164.	5.9	123
12	MLL4 Is Required to Maintain Broad H3K4me3 Peaks and Super-Enhancers at Tumor Suppressor Genes. <i>Molecular Cell</i> , 2018, 70, 825-841.e6.	9.7	123
13	Consensus Paper: Experimental Neurostimulation of the Cerebellum. <i>Cerebellum</i> , 2019, 18, 1064-1097.	2.5	120
14	Engrailed Homeobox Genes Regulate Establishment of the Cerebellar Afferent Circuit Map. <i>Journal of Neuroscience</i> , 2010, 30, 10015-10024.	3.6	118
15	Disruption of the ATXN1-CC1 complex causes a spectrum of neurobehavioral phenotypes in mice and humans. <i>Nature Genetics</i> , 2017, 49, 527-536.	21.4	113
16	Conservation of the architecture of the anterior lobe vermis of the cerebellum across mammalian species. <i>Progress in Brain Research</i> , 2005, 148, 283-297.	1.4	106
17	Cerebellar Zonal Patterning Relies on Purkinje Cell Neurotransmission. <i>Journal of Neuroscience</i> , 2014, 34, 8231-8245.	3.6	90
18	X-linked Angelman-like syndrome caused by Slc9a6 knockout in mice exhibits evidence of endosomal-lysosomal dysfunction. <i>Brain</i> , 2011, 134, 3369-3383.	7.6	89

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19	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
20	A Voltage-Gated Calcium Channel Regulates Lysosomal Fusion with Endosomes and Autophagosomes and Is Required for Neuronal Homeostasis. <i>PLoS Biology</i> , 2015, 13, e1002103.	5.6	85
21	Molecular layer interneurons shape the spike activity of cerebellar Purkinje cells. <i>Scientific Reports</i> , 2019, 9, 1742.	3.3	80
22	ATXN1-CIC Complex Is the Primary Driver of Cerebellar Pathology in Spinocerebellar Ataxia Type 1 through a Gain-of-Function Mechanism. <i>Neuron</i> , 2018, 97, 1235-1243.e5.	8.1	79
23	In vivo analysis of Purkinje cell firing properties during postnatal mouse development. <i>Journal of Neurophysiology</i> , 2015, 113, 578-591.	1.8	78
24	Insights into cerebellar development and connectivity. <i>Neuroscience Letters</i> , 2019, 688, 2-13.	2.1	75
25	Abnormal Dysbindin Expression in Cerebellar Mossy Fiber Synapses in the mdx Mouse Model of Duchenne Muscular Dystrophy. <i>Journal of Neuroscience</i> , 2003, 23, 6576-6585.	3.6	73
26	Golgi Cell Dendrites Are Restricted by Purkinje Cell Stripe Boundaries in the Adult Mouse Cerebellar Cortex. <i>Journal of Neuroscience</i> , 2008, 28, 2820-2826.	3.6	69
27	Extensive cryptic splicing upon loss of RBM17 and TDP43 in neurodegeneration models. <i>Human Molecular Genetics</i> , 2016, 25, ddw337.	2.9	68
28	Parasagittal compartmentation of cerebellar mossy fibers as revealed by the patterned expression of vesicular glutamate transporters VGLUT1 and VGLUT2. <i>Brain Structure and Function</i> , 2012, 217, 165-180.	2.3	67
29	Bifidobacteria shape host neural circuits during postnatal development by promoting synapse formation and microglial function. <i>Scientific Reports</i> , 2020, 10, 7737.	3.3	66
30	Purkinje cell misfiring generates high-amplitude action tremors that are corrected by cerebellar deep brain stimulation. <i>ELife</i> , 2020, 9, .	6.0	57
31	Pathogenesis of severe ataxia and tremor without the typical signs of neurodegeneration. <i>Neurobiology of Disease</i> , 2016, 86, 86-98.	4.4	49
32	Cerebellar Lobulus Simplex and Crus I Differentially Represent Phase and Phase Difference of Prefrontal Cortical and Hippocampal Oscillations. <i>Cell Reports</i> , 2019, 27, 2328-2334.e3.	6.4	49
33	Knowledge gaps and research recommendations for essential tremor. <i>Parkinsonism and Related Disorders</i> , 2016, 33, 27-35.	2.2	46
34	Abnormal HNK-1 expression in the cerebellum of an N-CAM null mouse. <i>Journal of Neurocytology</i> , 2004, 33, 117-130.	1.5	45
35	Neuromodulation of the cerebellum rescues movement in a mouse model of ataxia. <i>Nature Communications</i> , 2021, 12, 1295.	12.8	44
36	Abnormal Cerebellar Development in Autism Spectrum Disorders. <i>Developmental Neuroscience</i> , 2021, 43, 181-190.	2.0	43

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37	Compartmentation of the rabbit cerebellar cortex. <i>Journal of Comparative Neurology</i> , 2002, 444, 159-173.	1.6	41
38	Postnatal development of cerebellar zones revealed by neurofilament heavy chain protein expression. <i>Frontiers in Neuroanatomy</i> , 2013, 7, 9.	1.7	41
39	Recent advances in understanding the mechanisms of cerebellar granule cell development and function and their contribution to behavior. <i>F1000Research</i> , 2018, 7, 1142.	1.6	39
40	Patterned expression of a cocaine- and amphetamine-regulated transcript peptide reveals complex circuit topography in the rodent cerebellar cortex. <i>Journal of Comparative Neurology</i> , 2011, 519, 1781-1796.	1.6	37
41	Zebrin II compartmentation of the cerebellum in a basal insectivore, the Madagascar hedgehog tenrec <i>Echinops telfairi</i> . <i>Journal of Anatomy</i> , 2003, 203, 283-296.	1.5	36
42	Functional Outcomes of Cerebellar Malformations. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 441.	3.7	35
43	Architecture and development of olivocerebellar circuit topography. <i>Frontiers in Neural Circuits</i> , 2012, 6, 115.	2.8	34
44	Desire, Disease, and the Origins of the Dopaminergic System. <i>Schizophrenia Bulletin</i> , 2007, 34, 212-219.	4.3	33
45	Cerebellum and Cerebellar Connections. , 2015, , 133-205.		33
46	The small GTPases RhoA and Rac1 regulate cerebellar development by controlling cell morphogenesis, migration and foliation. <i>Developmental Biology</i> , 2014, 394, 39-53.	2.0	32
47	Antigenic compartmentation of the cat cerebellar cortex. <i>Brain Research</i> , 2003, 977, 1-15.	2.2	31
48	Antigenic compartmentation of the primate and tree shrew cerebellum: a common topography of zebrin II in <i>Macaca mulatta</i> and <i>Tupaia belangeri</i> . <i>Journal of Anatomy</i> , 2004, 204, 257-269.	1.5	31
49	Interactions Between Purkinje Cells and Granule Cells Coordinate the Development of Functional Cerebellar Circuits. <i>Neuroscience</i> , 2021, 462, 4-21.	2.3	30
50	Cerebellum. , 2012, , 360-397.		29
51	Fluorescence mapping of afferent topography in three dimensions. <i>Brain Structure and Function</i> , 2011, 216, 159-169.	2.3	28
52	Mossy Fibers Terminate Directly Within Purkinje Cell Zones During Mouse Development. <i>Cerebellum</i> , 2016, 15, 14-17.	2.5	28
53	Maturation of Purkinje cell firing properties relies on neurogenesis of excitatory neurons. <i>ELife</i> , 2021, 10, .	6.0	28
54	An optimized surgical approach for obtaining stable extracellular single-unit recordings from the cerebellum of head-fixed behaving mice. <i>Journal of Neuroscience Methods</i> , 2016, 262, 21-31.	2.5	27

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55	Current Opinions and Consensus for Studying Tremor in Animal Models. <i>Cerebellum</i> , 2019, 18, 1036-1063.	2.5	27
56	Defining research priorities in dystonia. <i>Neurology</i> , 2020, 94, 526-537.	1.1	26
57	Topographical anatomy of the cerebellum in the guinea pig, <i>Cavia porcellus</i> . <i>Brain Research</i> , 2003, 965, 159-169.	2.2	25
58	Purkinje cell neurotransmission patterns cerebellar basket cells into zonal modules defined by distinct pinceau sizes. <i>ELife</i> , 2020, 9, .	6.0	25
59	Establishment of topographic circuit zones in the cerebellum of scrambler mutant mice. <i>Frontiers in Neural Circuits</i> , 2013, 7, 122.	2.8	23
60	Cerebellar Coordination of Neuronal Communication in Cerebral Cortex. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 781527.	2.5	20
61	WGA-Alexa Conjugates for Axonal Tracing. <i>Current Protocols in Neuroscience</i> , 2017, 79, 1.28.1-1.28.24.	2.6	19
62	Neurexophilin4 is a selectively expressed $\hat{\pm}$ -neurexin ligand that modulates specific cerebellar synapses and motor functions. <i>ELife</i> , 2019, 8, .	6.0	19
63	Neurofilament Heavy Chain Expression Reveals a Unique Parasagittal Stripe Topography in the Mouse Cerebellum. <i>Cerebellum</i> , 2011, 10, 409-421.	2.5	18
64	Cerebellar Zones: History, Development, and Function. <i>Cerebellum</i> , 2011, 10, 301-306.	2.5	18
65	MeCP2 Levels Regulate the 3D Structure of Heterochromatic Foci in Mouse Neurons. <i>Journal of Neuroscience</i> , 2020, 40, 8746-8766.	3.6	18
66	$\hat{\pm}$ -Synuclein Expression in the Mouse Cerebellum Is Restricted to VGluT1 Excitatory Terminals and Is Enriched in Unipolar Brush Cells. <i>Cerebellum</i> , 2015, 14, 516-527.	2.5	17
67	Shaping Diversity Into the Brain's Form and Function. <i>Frontiers in Neural Circuits</i> , 2018, 12, 83.	2.8	17
68	Abnormal cerebellar function and tremor in a mouse model for non-manifesting partially penetrant dystonia type 6. <i>Journal of Physiology</i> , 2021, 599, 2037-2054.	2.9	17
69	Persistent motor dysfunction despite homeostatic rescue of cerebellar morphogenesis in the Car8 waddles mutant mouse. <i>Neural Development</i> , 2019, 14, 6.	2.4	16
70	Bergmann Glia are Patterned into Topographic Molecular Zones in the Developing and Adult Mouse Cerebellum. <i>Cerebellum</i> , 2018, 17, 392-403.	2.5	15
71	Deleting <i>Mecp2</i> from the cerebellum rather than its neuronal subtypes causes a delay in motor learning in mice. <i>ELife</i> , 2021, 10, .	6.0	14
72	Genetically eliminating Purkinje neuron GABAergic neurotransmission increases their response gain to vestibular motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3245-3250.	7.1	13

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73	Loss of cerebellar function selectively affects intrinsic rhythmicity of eupneic breathing. <i>Biology Open</i> , 2020, 9, .	1.2	13
74	Ankyrin-R Links Kv3.3 to the Spectrin Cytoskeleton and Is Required for Purkinje Neuron Survival. <i>Journal of Neuroscience</i> , 2022, 42, 2-15.	3.6	13
75	<i>In vivo</i> cerebellar circuit function is disrupted in an <i>mdx</i> mouse model of Duchenne muscular dystrophy. <i>DMM Disease Models and Mechanisms</i> , 2019, 13, .	2.4	12
76	Eph/ephrin Function Contributes to the Patterning of Spinocerebellar Mossy Fibers Into Parasagittal Zones. <i>Frontiers in Systems Neuroscience</i> , 2020, 14, 7.	2.5	10
77	Cerebellar Dysfunction as a Source of Dystonic Phenotypes in Mice. <i>Cerebellum</i> , 2023, 22, 719-729.	2.5	10
78	Purkinje cell compartmentalization in the cerebellum of the spontaneous mutant mouse dreher. <i>Brain Structure and Function</i> , 2014, 219, 35-47.	2.3	9
79	Causal Evidence for a Role of Cerebellar Lobulus Simplex in Prefrontal-Hippocampal Interaction in Spatial Working Memory Decision-Making. <i>Cerebellum</i> , 2022, 21, 762-775.	2.5	9
80	A Programmable Multi-Biomarker Neural Sensor for Closed-Loop DBS. <i>IEEE Access</i> , 2019, 7, 230-244.	4.2	7
81	Wearable Peripheral Electrical Stimulation Devices for the Reduction of Essential Tremor: A Review. <i>IEEE Access</i> , 2021, 9, 80066-80076.	4.2	7
82	Multi-Disease Deep Brain Stimulation. <i>IEEE Access</i> , 2020, 8, 216933-216947.	4.2	6
83	Revealing Neural Circuit Topography in Multi-Color. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	5
84	Zones and Stripes: Development of Cerebellar Topography. , 2013, , 43-59.		4
85	Climbing Fiber Development Is Impaired in Postnatal <i>Car8</i> wdl Mice. <i>Cerebellum</i> , 2018, 17, 56-61.	2.5	4
86	Mood Regulatory Actions of Active and Sham Nucleus Accumbens Deep Brain Stimulation in Antidepressant Resistant Rats. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 644921.	2.0	4
87	Silencing the Output of Cerebellar Neurons Using Cell Type-Specific Genetic Deletion of Vesicular GABA and Glutamate Transporters. <i>Neuromethods</i> , 2022, , 47-67.	0.3	4
88	In Vivo Loose-Patch-Juxtacellular Labeling of Cerebellar Neurons in Mice. <i>Neuromethods</i> , 2018, , 1-18.	0.3	3
89	Zones and Stripes: Development of Cerebellar Topography. , 2019, , 1-23.		3
90	Motor control: Internalizing your place in the world. <i>Current Biology</i> , 2021, 31, R1576-R1578.	3.9	3

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91	An Introduction to Journal Club in The Cerebellum. <i>Cerebellum</i> , 2012, 11, 828-828.	2.5	2
92	Motor Circuit Abnormalities During Cerebellar Development. , 2017, , 105-127.		1
93	The pledge, the turn, and the prestige of transient cerebellar alterations in SCA6. <i>Journal of Physiology</i> , 2017, 595, 607-608.	2.9	0
94	Medical Devices in Neurology. , 2019, , 409-413.		0
95	Zones and Stripes: Development of Cerebellar Topography. , 2022, , 45-66.		0