Sonia Garel

List of Publications by Year
in descending order

54 papers	6,386 citations	101543 36 h-index	161849 54 g-index
65 all docs	65 docs citations	65 times ranked	8612 citing authors

#	Article	IF	Citations
1	A requirement for the immediate early gene Zif268 in the expression of late LTP and long-term memories. Nature Neuroscience, 2001, 4, 289-296.	14.8	792
2	Microbiome Influences Prenatal and Adult Microglia in a Sex-Specific Manner. Cell, 2018, 172, 500-516.e16.	28.9	563
3	Microglia Modulate Wiring of the Embryonic Forebrain. Cell Reports, 2014, 8, 1271-1279.	6.4	526
4	Tangential Neuronal Migration Controls Axon Guidance: A Role for Neuregulin-1 in Thalamocortical Axon Navigation. Cell, 2006, 125, 127-142.	28.9	338
5	Dose-dependent functions ofFgf8in regulating telencephalic patterning centers. Development (Cambridge), 2006, 133, 1831-1844.	2.5	331
6	Microglia and early brain development: An intimate journey. Science, 2018, 362, 185-189.	12.6	269
7	Induced-Pluripotent-Stem-Cell-Derived Primitive Macrophages Provide a Platform for Modeling Tissue-Resident Macrophage Differentiation and Function. Immunity, 2017, 47, 183-198.e6.	14.3	245
8	Molecular regionalization of the neocortex is disrupted inFgf8hypomorphic mutants. Development (Cambridge), 2003, 130, 1903-1914.	2.5	233
9	Early Fate Defines Microglia and Non-parenchymal Brain Macrophage Development. Cell, 2020, 181, 557-573.e18.	28.9	218
10	Emx1 andEmx2 cooperate to regulate cortical size, lamination, neuronal differentiation, development of cortical efferents, and thalamocortical pathfinding. Journal of Comparative Neurology, 2003, 457, 345-360.	1.6	159
11	Family ofEbf/Olf-1-related genes potentially involved in neuronal differentiation and regional specification in the central nervous system. Developmental Dynamics, 1997, 210, 191-205.	1.8	157
12	Patterning of the lateral ganglionic eminence by theGsh1 andGsh2 homeobox genes regulates striatal and olfactory bulb histogenesis and the growth of axons through the basal ganglia. Journal of Comparative Neurology, 2003, 461, 151-165.	1.6	144
13	Transient Neuronal Populations Are Required to Guide Callosal Axons: A Role for Semaphorin 3C. PLoS Biology, 2009, 7, e1000230.	5.6	141
14	DLX5 Regulates Development of Peripheral and Central Components of the Olfactory System. Journal of Neuroscience, 2003, 23, 568-578.	3.6	127
15	Dlx-Dependent and -Independent Regulation of Olfactory Bulb Interneuron Differentiation. Journal of Neuroscience, 2007, 27, 3230-3243.	3.6	123
16	Id4regulates neural progenitor proliferation and differentiation in vivo. Development (Cambridge), 2004, 131, 5441-5448.	2.5	120
17	Pathfinding of Corticothalamic Axons Relies on a Rendezvous with Thalamic Projections. Neuron, 2013, 77, 472-484.	8.1	117
18	Ebf gene function is required for coupling neuronal differentiation and cell cycle exit. Development (Cambridge), 2003, 130, 6013-6025.	2.5	115

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19	Mechanisms controlling the guidance of thalamocortical axons through the embryonic forebrain. European Journal of Neuroscience, 2012, 35, 1573-1585.	2.6	112
20	The early topography of thalamocortical projections is shifted inEbf1 and Dlx1/2 mutant mice. Development (Cambridge), 2002, 129, 5621-5634.	2.5	109
21	Distinct functions of Egr gene family members in cognitive processes. Frontiers in Neuroscience, 2008, 2, 47-55.	2.8	96
22	On place and time: microglia in embryonic and perinatal brain development. Current Opinion in Neurobiology, 2017, 47, 121-130.	4.2	94
23	Intermediate targets in formation of topographic projections: inputs from the thalamocortical system. Trends in Neurosciences, 2004, 27, 533-539.	8.6	88
24	Spontaneous activity regulates Robo1 transcription to mediate a switch in thalamocortical axon growth. Nature Neuroscience, 2012, 15, 1134-1143.	14.8	86
25	Molecular signatures of neural connectivity in the olfactory cortex. Nature Communications, 2016, 7, 12238.	12.8	86
26	SLK-dependent activation of ERMs controls LGNâ€“NuMA localization and spindle orientation. Journal of Cell Biology, 2014, 205, 791-799.	5.2	81
27	Slit2 Activity in the Migration of Guidepost Neurons Shapes Thalamic Projections during Development and Evolution. Neuron, 2011, 69, 1085-1098.	8.1	75
28	Fgf8 Regulates the Development of Intra-Neocortical Projections. Journal of Neuroscience, 2004, 24, 8917-8923.	3.6	72
29	Inputs from the thalamocortical system on axon pathfinding mechanisms. Current Opinion in Neurobiology, 2014, 27, 143-150.	4.2	68
30	Emergent Growth Cone Responses to Combinations of Slit1 and Netrin 1 in Thalamocortical Axon Topography. Current Biology, 2011, 21, 1748-1755.	3.9	66
31	Neuronal and microglial regulators of cortical wiring: usual and novel guideposts. Frontiers in Neuroscience, 2015, 9, 248.	2.8	63
32	The mysterious origins of microglia. Nature Neuroscience, 2018, 21, 897-899.	14.8	60
33	Screening for genes that wire the cerebral cortex. BMC Biology, 2011, 9, 1.	3.8	59
34	Role of Fgf8 signalling in the specification of rostral Cajal-Retzius cells. Development (Cambridge), 2010, 137, 293-302.	2.5	45
35	The vesicular SNARE Synaptobrevin is required for Semaphorin 3A axonal repulsion. Journal of Cell Biology, 2012, 196, 37-46.	5.2	44
36	Reallocation of Olfactory Cajal-Retzius Cells Shapes Neocortex Architecture. Neuron, 2016, 92, 435-448.	8.1	43

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37	Sensory Map Transfer to the Neocortex Relies on Pretarget Ordering of Thalamic Axons. Current Biology, 2013, 23, 810-816.	3.9	41
38	Biphasic Impact of Prenatal Inflammation and Macrophage Depletion on the Wiring of Neocortical Inhibitory Circuits. Cell Reports, 2019, 28, 1119-1126.e4.	6.4	38
39	Activity-dependent death of transient Cajal-Retzius neurons is required for functional cortical wiring. ELife, 2019, 8, .	6.0	32
40	Microglial ontogeny, diversity and neurodevelopmental functions. Current Opinion in Genetics and Development, 2020, 65, 186-194.	3.3	30
41	Active intermixing of indirect and direct neurons builds the striatal mosaic. Nature Communications, 2018, 9, 4725.	12.8	28
42	Subrepellent doses of Slit1 promote Netrin-1 chemotactic responses in subsets of axons. Neural Development, 2015, 10, 5.	2.4	20
43	Trio GEF mediates RhoA activation downstream of Slit2 and coordinates telencephalic wiring. Development (Cambridge), 2018, 145, .	2.5	19
44	Microglia Under the Spotlight: Activity and Complement-Dependent Engulfment of Synapses. Trends in Neurosciences, 2018, 41, 332-334.	8.6	18
45	Being superficial: a developmental viewpoint on cortical layer 1 wiring. Current Opinion in Neurobiology, 2021, 66, 125-134.	4.2	18
46	IGF-1 Induces GHRH Neuronal Axon Elongation during Early Postnatal Life in Mice. PLoS ONE, 2017, 12, e0170083.	2.5	16
47	Map transfer from the thalamus to the neocortex: Inputs from the barrel field. Seminars in Cell and Developmental Biology, 2014, 35, 147-155.	5.0	14
48	Step by step: cells with multiple functions in cortical circuit assembly. Nature Reviews Neuroscience, 2022, 23, 395-410.	10.2	14
49	Tangential migration of corridor guidepost neurons contributes to anxiety circuits. Journal of Comparative Neurology, 2018, 526, 397-411.	1.6	10
50	Dynamic interplay between thalamic activity and Cajal-Retzius cells regulates the wiring of cortical layer 1. Cell Reports, 2022, 39, 110667.	6.4	8
51	Neuronal Migration of Guidepost Cells. , 2013, , 457-479.		4
52	Effects of cannabinoids in Krox-24 targeted mice. NeuroReport, 2001, 12, 1367-1370.	1.2	2
53	Neuronal migration of guidepost cells. , 2020, , 435-463.		0
54	Microglial Ontogeny and Functions in Shaping Brain Circuits. , 2014, , 183-215.		0