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	Step by step: cells with multiple functions in cortical circuit assembly. Nature Reviews Neuroscience, 2022, 23, 395-410.	10.2	14
2	Dynamic interplay between thalamic activity and Cajal-Retzius cells regulates the wiring of cortical layer 1. Cell Reports, 2022, 39, 110667.	6.4	8
3	Being superficial: a developmental viewpoint on cortical layer 1 wiring. Current Opinion in Neurobiology, 2021, 66, 125-134.	4.2	18
4	Microglial ontogeny, diversity and neurodevelopmental functions. Current Opinion in Genetics and Development, 2020, 65, 186-194.	3.3	30
5	Neuronal migration of guidepost cells. , 2020, , 435-463.		0
6	Early Fate Defines Microglia and Non-parenchymal Brain Macrophage Development. Cell, 2020, 181, 557-573.e18.	28.9	218
7	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
8	Activity-dependent death of transient Cajal-Retzius neurons is required for functional cortical wiring. ELife, 2019, 8, .	6.0	32
9	Microbiome Influences Prenatal and Adult Microglia in a Sex-Specific Manner. Cell, 2018, 172, 500-516.e16.	28.9	563
10	Tangential migration of corridor guidepost neurons contributes to anxiety circuits. Journal of Comparative Neurology, 2018, 526, 397-411.	1.6	10
11	Active intermixing of indirect and direct neurons builds the striatal mosaic. Nature Communications, 2018, 9, 4725.	12.8	28
12	Microglia and early brain development: An intimate journey. Science, 2018, 362, 185-189.	12.6	269
13	Trio GEF mediates RhoA activation downstream of Slit2 and coordinates telencephalic wiring. Development (Cambridge), 2018, 145, .	2.5	19
14	Microglia Under the Spotlight: Activity and Complement-Dependent Engulfment of Synapses. Trends in Neurosciences, 2018, 41, 332-334.	8.6	18
15	The mysterious origins of microglia. Nature Neuroscience, 2018, 21, 897-899.	14.8	60
16	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
17	On place and time: microglia in embryonic and perinatal brain development. Current Opinion in Neurobiology, 2017, 47, 121-130.	4.2	94
18	IGF-1 Induces GHRH Neuronal Axon Elongation during Early Postnatal Life in Mice. PLoS ONE, 2017, 12, e0170083.	2.5	16

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19	Reallocation of Olfactory Cajal-Retzius Cells Shapes Neocortex Architecture. Neuron, 2016, 92, 435-448.	8.1	43
20	Molecular signatures of neural connectivity in the olfactory cortex. Nature Communications, 2016, 7, 12238.	12.8	86
21	Neuronal and microglial regulators of cortical wiring: usual and novel guideposts. Frontiers in Neuroscience, 2015, 9, 248.	2.8	63
22	Subrepellent doses of Slit1 promote Netrin-1 chemotactic responses in subsets of axons. Neural Development, 2015, 10, 5.	2.4	20
23	Microglia Modulate Wiring of the Embryonic Forebrain. Cell Reports, 2014, 8, 1271-1279.	6.4	526
24	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
25	Inputs from the thalamocortical system on axon pathfinding mechanisms. Current Opinion in Neurobiology, 2014, 27, 143-150.	4.2	68
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	Microglial Ontogeny and Functions in Shaping Brain Circuits. , 2014, , 183-215.		0
28	Neuronal Migration of Guidepost Cells. , 2013, , 457-479.		4
29	Pathfinding of Corticothalamic Axons Relies on a Rendezvous with Thalamic Projections. Neuron, 2013, 77, 472-484.	8.1	117
30	Sensory Map Transfer to the Neocortex Relies on Pretarget Ordering of Thalamic Axons. Current Biology, 2013, 23, 810-816.	3.9	41
31	The vesicular SNARE Synaptobrevin is required for Semaphorin 3A axonal repulsion. Journal of Cell Biology, 2012, 196, 37-46.	5.2	44
32	Spontaneous activity regulates Robo1 transcription to mediate a switch in thalamocortical axon growth. Nature Neuroscience, 2012, 15, 1134-1143.	14.8	86
33	Mechanisms controlling the guidance of thalamocortical axons through the embryonic forebrain. European Journal of Neuroscience, 2012, 35, 1573-1585.	2.6	112
34	Slit2 Activity in the Migration of Guidepost Neurons Shapes Thalamic Projections during Development and Evolution. Neuron, 2011, 69, 1085-1098.	8.1	75
35	Emergent Growth Cone Responses to Combinations of Slit1 and Netrin 1 in Thalamocortical Axon Topography. Current Biology, 2011, 21, 1748-1755.	3.9	66
36	Screening for genes that wire the cerebral cortex. BMC Biology, 2011, 9, 1.	3.8	59

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37	Role of Fgf8 signalling in the specification of rostral Cajal-Retzius cells. Development (Cambridge), 2010, 137, 293-302.	2.5	45
38	Transient Neuronal Populations Are Required to Guide Callosal Axons: A Role for Semaphorin 3C. PLoS Biology, 2009, 7, e1000230.	5.6	141
39	Distinct functions of Egr gene family members in cognitive processes. Frontiers in Neuroscience, 2008, 2, 47-55.	2.8	96
40	Dlx-Dependent and -Independent Regulation of Olfactory Bulb Interneuron Differentiation. Journal of Neuroscience, 2007, 27, 3230-3243.	3.6	123
41	Tangential Neuronal Migration Controls Axon Guidance: A Role for Neuregulin-1 in Thalamocortical Axon Navigation. Cell, 2006, 125, 127-142.	28.9	338
42	Dose-dependent functions ofFgf8in regulating telencephalic patterning centers. Development (Cambridge), 2006, 133, 1831-1844.	2.5	331
43	Id4regulates neural progenitor proliferation and differentiation in vivo. Development (Cambridge), 2004, 131, 5441-5448.	2.5	120
44	Fgf8 Regulates the Development of Intra-Neocortical Projections. Journal of Neuroscience, 2004, 24, 8917-8923.	3.6	72
45	Intermediate targets in formation of topographic projections: inputs from the thalamocortical system. Trends in Neurosciences, 2004, 27, 533-539.	8.6	88
46	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
47	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
48	Molecular regionalization of the neocortex is disrupted inFgf8hypomorphic mutants. Development (Cambridge), 2003, 130, 1903-1914.	2.5	233
49	Ebf gene function is required for coupling neuronal differentiation and cell cycle exit. Development (Cambridge), 2003, 130, 6013-6025.	2.5	115
50	DLX5 Regulates Development of Peripheral and Central Components of the Olfactory System. Journal of Neuroscience, 2003, 23, 568-578.	3.6	127
51	The early topography of thalamocortical projections is shifted inEbf1 and Dlx1/2 mutant mice. Development (Cambridge), 2002, 129, 5621-5634.	2.5	109
52	Effects of cannabinoids in Krox-24 targeted mice. NeuroReport, 2001, 12, 1367-1370.	1.2	2
53	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
54	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