

Oscar Marin

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122
papers

15,701
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62
h-index

125
g-index

134
ext. papers

18,003
ext. citations

11.8
avg, IF

6.86
L-index

#	Paper	IF	Citations
122	Petilla terminology: nomenclature of features of GABAergic interneurons of the cerebral cortex. <i>Nature Reviews Neuroscience</i> , 2008 , 9, 557-68	13.5	1092
121	A long, remarkable journey: tangential migration in the telencephalon. <i>Nature Reviews Neuroscience</i> , 2001 , 2, 780-90	13.5	844
120	Cell migration in the forebrain. <i>Annual Review of Neuroscience</i> , 2003 , 26, 441-83	17	781
119	Interneuron dysfunction in psychiatric disorders. <i>Nature Reviews Neuroscience</i> , 2012 , 13, 107-20	13.5	719
118	New neurons follow the flow of cerebrospinal fluid in the adult brain. <i>Science</i> , 2006 , 311, 629-32	33.3	604
117	New insights into the classification and nomenclature of cortical GABAergic interneurons. <i>Nature Reviews Neuroscience</i> , 2013 , 14, 202-16	13.5	532
116	Origin and molecular specification of striatal interneurons. <i>Journal of Neuroscience</i> , 2000 , 20, 6063-76	6.6	513
115	Delineation of multiple subpallial progenitor domains by the combinatorial expression of transcriptional codes. <i>Journal of Neuroscience</i> , 2007 , 27, 9682-95	6.6	433
114	Slit proteins prevent midline crossing and determine the dorsoventral position of major axonal pathways in the mammalian forebrain. <i>Neuron</i> , 2002 , 33, 233-48	13.9	356
113	Sorting of striatal and cortical interneurons regulated by semaphorin-neuropilin interactions. <i>Science</i> , 2001 , 293, 872-5	33.3	354
112	Control of cortical GABA circuitry development by Nrg1 and ErbB4 signalling. <i>Nature</i> , 2010 , 464, 1376-80	50.4	343
111	Short- and long-range attraction of cortical GABAergic interneurons by neuregulin-1. <i>Neuron</i> , 2004 , 44, 251-61	13.9	342
110	Spatial genetic patterning of the embryonic neuroepithelium generates GABAergic interneuron diversity in the adult cortex. <i>Journal of Neuroscience</i> , 2007 , 27, 10935-46	6.6	303
109	Tangential neuronal migration controls axon guidance: a role for neuregulin-1 in thalamocortical axon navigation. <i>Cell</i> , 2006 , 125, 127-42	56.2	303
108	Cell migration from the ganglionic eminences is required for the development of hippocampal GABAergic interneurons. <i>Neuron</i> , 2000 , 28, 727-40	13.9	294
107	Altering the course of schizophrenia: progress and perspectives. <i>Nature Reviews Drug Discovery</i> , 2016 , 15, 485-515	64.1	284
106	Guiding neuronal cell migrations. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010 , 2, a001834	10.2	276

105	Development and Functional Diversification of Cortical Interneurons. <i>Neuron</i> , 2018 , 100, 294-313	13.9	251
104	Cxcr7 controls neuronal migration by regulating chemokine responsiveness. <i>Neuron</i> , 2011 , 69, 77-90	13.9	221
103	Meninges control tangential migration of hem-derived Cajal-Retzius cells via CXCL12/CXCR4 signaling. <i>Nature Neuroscience</i> , 2006 , 9, 1284-93	25.5	216
102	The embryonic preoptic area is a novel source of cortical GABAergic interneurons. <i>Journal of Neuroscience</i> , 2009 , 29, 9380-9	6.6	210
101	Postmitotic Nkx2-1 controls the migration of telencephalic interneurons by direct repression of guidance receptors. <i>Neuron</i> , 2008 , 59, 733-45	13.9	197
100	ErbB4 deletion from fast-spiking interneurons causes schizophrenia-like phenotypes. <i>Neuron</i> , 2013 , 79, 1152-68	13.9	193
99	Preventive strategies for mental health. <i>Lancet Psychiatry</i> , 2018 , 5, 591-604	23.3	193
98	Evolution of the basal ganglia in tetrapods: a new perspective based on recent studies in amphibians. <i>Trends in Neurosciences</i> , 1998 , 21, 487-94	13.3	188
97	Neuronal migration mechanisms in development and disease. <i>Current Opinion in Neurobiology</i> , 2010 , 20, 68-78	7.6	187
96	The LIM-homeobox gene Lhx8 is required for the development of many cholinergic neurons in the mouse forebrain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 9005-10	11.5	182
95	Chemokine signaling controls intracortical migration and final distribution of GABAergic interneurons. <i>Journal of Neuroscience</i> , 2008 , 28, 1613-24	6.6	180
94	Developmental timing and critical windows for the treatment of psychiatric disorders. <i>Nature Medicine</i> , 2016 , 22, 1229-1238	50.5	174
93	Evolution of the basal ganglia: new perspectives through a comparative approach. <i>Journal of Anatomy</i> , 2000 , 196 (Pt 4), 501-17	2.9	169
92	New neurons clear the path of astrocytic processes for their rapid migration in the adult brain. <i>Neuron</i> , 2010 , 67, 213-23	13.9	167
91	Robo1 and Robo2 cooperate to control the guidance of major axonal tracts in the mammalian forebrain. <i>Journal of Neuroscience</i> , 2007 , 27, 3395-407	6.6	167
90	Basal ganglia organization in amphibians: Chemoarchitecture. <i>Journal of Comparative Neurology</i> , 1998 , 392, 285-312	3.4	143
89	Cellular and molecular mechanisms controlling the migration of neocortical interneurons. <i>European Journal of Neuroscience</i> , 2013 , 38, 2019-29	3.5	141
88	Generation of interneuron diversity in the mouse cerebral cortex. <i>European Journal of Neuroscience</i> , 2010 , 31, 2136-41	3.5	141

87	Integration of GABAergic interneurons into cortical cell assemblies: lessons from embryos and adults. <i>Neuron</i> , 2013 , 79, 849-64	13.9	137
86	Early emergence of cortical interneuron diversity in the mouse embryo. <i>Science</i> , 2018 , 360, 81-85	33.3	130
85	Distribution of choline acetyltransferase immunoreactivity in the brain of anuran (<i>Rana perezi</i> , <i>Xenopus laevis</i>) and urodele (<i>Pleurodeles waltl</i>) amphibians. <i>Journal of Comparative Neurology</i> , 1997 , 382, 499-534	3.4	128
84	A wide diversity of cortical GABAergic interneurons derives from the embryonic preoptic area. <i>Journal of Neuroscience</i> , 2011 , 31, 16570-80	6.6	125
83	Distribution of choline acetyltransferase-immunoreactive structures in the lamprey brain. <i>Journal of Comparative Neurology</i> , 2001 , 431, 105-26	3.4	123
82	Directional guidance of interneuron migration to the cerebral cortex relies on subcortical Slit1/2-independent repulsion and cortical attraction. <i>Development (Cambridge)</i> , 2003 , 130, 1889-901	6.6	122
81	Pyramidal cell regulation of interneuron survival sculpts cortical networks. <i>Nature</i> , 2018 , 557, 668-673	50.4	120
80	Layer acquisition by cortical GABAergic interneurons is independent of Reelin signaling. <i>Journal of Neuroscience</i> , 2006 , 26, 6924-34	6.6	110
79	Lineage-specific laminar organization of cortical GABAergic interneurons. <i>Nature Neuroscience</i> , 2013 , 16, 1199-210	25.5	101
78	Slit/Robo signaling modulates the proliferation of central nervous system progenitors. <i>Neuron</i> , 2012 , 76, 338-52	13.9	99
77	Origin and molecular specification of globus pallidus neurons. <i>Journal of Neuroscience</i> , 2010 , 30, 2824-346.6		99
76	Biased selection of leading process branches mediates chemotaxis during tangential neuronal migration. <i>Development (Cambridge)</i> , 2009 , 136, 41-50	6.6	99
75	Tuning of fast-spiking interneuron properties by an activity-dependent transcriptional switch. <i>Science</i> , 2015 , 349, 1216-20	33.3	97
74	Basal ganglia organization in amphibians: Efferent connections of the striatum and the nucleus accumbens. <i>Journal of Comparative Neurology</i> , 1997 , 380, 23-50	3.4	94
73	Basal ganglia organization in amphibians: afferent connections to the striatum and the nucleus accumbens. <i>Journal of Comparative Neurology</i> , 1997 , 378, 16-49	3.4	92
72	Topographical distribution of NADPH-diaphorase activity in the central nervous system of the frog, <i>Rana perezi</i> . <i>Journal of Comparative Neurology</i> , 1996 , 367, 54-69	3.4	86
71	Distribution of choline acetyltransferase (ChAT) immunoreactivity in the brain of the adult trout and tract-tracing observations on the connections of the nuclei of the isthmus. <i>Journal of Comparative Neurology</i> , 2000 , 428, 450-74	3.4	85
70	Developmental mechanisms underlying the generation of cortical interneuron diversity. <i>Neuron</i> , 2005 , 46, 377-81	13.9	83

69	Contact repulsion controls the dispersion and final distribution of Cajal-Retzius cells. <i>Neuron</i> , 2013 , 77, 457-71	13.9	76
68	Ontogeny of catecholamine systems in the central nervous system of anuran amphibians: an immunohistochemical study with antibodies against tyrosine hydroxylase and dopamine. <i>Journal of Comparative Neurology</i> , 1994 , 346, 63-79	3.4	76
67	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020 , 23, 1456-1468	25.5	76
66	Basal ganglia organization in amphibians: catecholaminergic innervation of the striatum and the nucleus accumbens. <i>Journal of Comparative Neurology</i> , 1997 , 378, 50-69	3.4	74
65	Requirement of the orphan nuclear receptor SF-1 in terminal differentiation of ventromedial hypothalamic neurons. <i>Molecular and Cellular Neurosciences</i> , 2003 , 22, 441-53	4.8	73
64	Regional expression of the homeobox gene NKX2-1 defines pallidal and interneuronal populations in the basal ganglia of amphibians. <i>Neuroscience</i> , 2002 , 114, 567-75	3.9	72
63	Neuregulin signaling, cortical circuitry development and schizophrenia. <i>Current Opinion in Genetics and Development</i> , 2011 , 21, 262-70	4.9	70
62	Neurons in motion: same principles for different shapes?. <i>Trends in Neurosciences</i> , 2006 , 29, 655-61	13.3	66
61	Basal ganglia organization in amphibians: evidence for a common pattern in tetrapods. <i>Progress in Neurobiology</i> , 1998 , 55, 363-97	10.9	64
60	Descending supraspinal pathways in amphibians. I. A dextran amine tracing study of their cells of origin. <i>Journal of Comparative Neurology</i> , 2001 , 434, 186-208	3.4	59
59	Cxcl12/Cxcr4 signaling controls the migration and process orientation of A9-A10 dopaminergic neurons. <i>Development (Cambridge)</i> , 2013 , 140, 4554-64	6.6	53
58	Neural circuit dysfunction in mouse models of neurodevelopmental disorders. <i>Current Opinion in Neurobiology</i> , 2018 , 48, 174-182	7.6	50
57	Lineage origins of GABAergic versus glutamatergic neurons in the neocortex. <i>Current Opinion in Neurobiology</i> , 2014 , 26, 132-41	7.6	50
56	Do amphibians have a true locus coeruleus?. <i>NeuroReport</i> , 1996 , 7, 1447-51	1.7	50
55	Abnormal laminar position and dendrite development of interneurons in the reeler forebrain. <i>Brain Research</i> , 2007 , 1140, 75-83	3.7	49
54	Focal adhesion kinase modulates radial glia-dependent neuronal migration through connexin-26. <i>Journal of Neuroscience</i> , 2011 , 31, 11678-91	6.6	48
53	Patterning of the basal telencephalon and hypothalamus is essential for guidance of cortical projections. <i>Development (Cambridge)</i> , 2002 , 129, 761-73	6.6	47
52	Localization of NADPH diaphorase/nitric oxide synthase and choline acetyltransferase in the spinal cord of the frog, <i>Rana perezi</i> . <i>Journal of Comparative Neurology</i> , 2000 , 419, 451-470	3.4	42

51	A stochastic framework of neurogenesis underlies the assembly of neocortical cytoarchitecture. <i>ELife</i> , 2019 , 8,	8.9	42
50	Developmental Cell Death in the Cerebral Cortex. <i>Annual Review of Cell and Developmental Biology</i> , 2019 , 35, 523-542	12.6	41
49	Transcriptional control of neuronal migration in the developing mouse brain. <i>Cerebral Cortex</i> , 2009 , 19 Suppl 1, i107-13	5.1	41
48	Abnormal wiring of CCK basket cells disrupts spatial information coding. <i>Nature Neuroscience</i> , 2017 , 20, 784-792	25.5	40
47	Optimization of interneuron function by direct coupling of cell migration and axonal targeting. <i>Nature Neuroscience</i> , 2018 , 21, 920-931	25.5	40
46	Origin of tectal cholinergic projections in amphibians: a combined study of choline acetyltransferase immunohistochemistry and retrograde transport of dextran amines. <i>Visual Neuroscience</i> , 1999 , 16, 271-83	1.7	40
45	Cholinergic and GABAergic neuronal elements in the pineal organ of lampreys, and tract-tracing observations of differential connections of pinealofugal neurons. <i>Cell and Tissue Research</i> , 1999 , 295, 215-23	4.2	38
44	Neuregulin-1/ErbB4 signaling controls the migration of oligodendrocyte precursor cells during development. <i>Experimental Neurology</i> , 2012 , 235, 610-20	5.7	36
43	Anatomical substrate of amphibian basal ganglia involvement in visuomotor behaviour. <i>European Journal of Neuroscience</i> , 1997 , 9, 2100-9	3.5	36
42	Descending supraspinal pathways in amphibians. II. Distribution and origin of the catecholaminergic innervation of the spinal cord. <i>Journal of Comparative Neurology</i> , 2001 , 434, 209-32	3.4	35
41	Neuregulin 3 Mediates Cortical Plate Invasion and Laminar Allocation of GABAergic Interneurons. <i>Cell Reports</i> , 2017 , 18, 1157-1170	10.6	34
40	Loss of Cntnap2 Causes Axonal Excitability Deficits, Developmental Delay in Cortical Myelination, and Abnormal Stereotyped Motor Behavior. <i>Cerebral Cortex</i> , 2019 , 29, 586-597	5.1	34
39	Ikaros-1 couples cell cycle arrest of late striatal precursors with neurogenesis of enkephalinergic neurons. <i>Journal of Comparative Neurology</i> , 2010 , 518, 329-51	3.4	33
38	Basal ganglia organization in amphibians: development of striatal and nucleus accumbens connections with emphasis on the catecholaminergic inputs. <i>Journal of Comparative Neurology</i> , 1997 , 383, 349-69	3.4	32
37	Differential expression of Eph receptors and ephrins correlates with the formation of topographic projections in primary and secondary visual circuits of the embryonic chick forebrain. <i>Developmental Biology</i> , 2001 , 234, 289-303	3.1	32
36	Localization of choline acetyltransferase (ChAT) immunoreactivity in the brain of a caecilian amphibian, <i>Dermophis mexicanus</i> (Amphibia: Gymnophiona). <i>Journal of Comparative Neurology</i> , 2002 , 448, 249-67	3.4	29
35	Organization of cholinergic systems in the brain of different fish groups: a comparative analysis. <i>Brain Research Bulletin</i> , 2002 , 57, 331-4	3.9	29
34	Molecular mechanisms controlling the migration of striatal interneurons. <i>Journal of Neuroscience</i> , 2015 , 35, 8718-29	6.6	28

33	Development of catecholamine systems in the central nervous system of the newt <i>Pleurodeles waltlii</i> as revealed by tyrosine hydroxylase immunohistochemistry. <i>Journal of Comparative Neurology</i> , 1995 , 360, 33-48	3.4	26
32	Evidence for a mesolimbic pathway in anuran amphibians: a combined tract-tracing/immunohistochemical study. <i>Neuroscience Letters</i> , 1995 , 190, 183-6	3.3	25
31	Ontogeny of vasotocinergic and mesotocinergic systems in the brain of the South African clawed frog <i>Xenopus laevis</i> . <i>Journal of Chemical Neuroanatomy</i> , 1995 , 9, 27-40	3.2	24
30	Nkx2.1-derived astrocytes and neurons together with Slit2 are indispensable for anterior commissure formation. <i>Nature Communications</i> , 2015 , 6, 6887	17.4	18
29	Patterning, Regionalization, and Cell Differentiation in the Forebrain 2002 , 75-106		18
28	Localization of adrenomedullin-like immunoreactivity in the hypothalamo-hypophysial system of amphibians. <i>Neuroscience Letters</i> , 1998 , 242, 13-6	3.3	17
27	Distribution and origin of the catecholaminergic innervation in the amphibian mesencephalic tectum. <i>Visual Neuroscience</i> , 2002 , 19, 321-33	1.7	16
26	Looking at neurodevelopment through a big data lens. <i>Science</i> , 2020 , 369,	33.3	16
25	Extensive branching of radially-migrating neurons in the mammalian cerebral cortex. <i>Journal of Comparative Neurology</i> , 2019 , 527, 1558-1576	3.4	14
24	Human cortical interneurons take their time. <i>Cell Stem Cell</i> , 2013 , 12, 497-9	18	14
23	Tuning neural circuits by turning the interneuron knob. <i>Current Opinion in Neurobiology</i> , 2017 , 42, 144-151	16	13
22	Thalamocortical topography reloaded: it's not where you go, but how you get there. <i>Neuron</i> , 2003 , 39, 388-91	13.9	13
21	Cholinergic and catecholaminergic neurons relay striatal information to the optic tectum in amphibians. <i>European Journal of Morphology</i> , 1999 , 37, 155-9		13
20	Afferent connections of the nucleus accumbens of the snake, <i>Elaphe guttata</i> , studied by means of in vitro and in vivo tracing techniques in combination with TH immunohistochemistry. <i>Neuroscience Letters</i> , 1997 , 225, 101-4	3.3	11
19	Origin and development of descending catecholaminergic pathways to the spinal cord in amphibians. <i>Brain Research Bulletin</i> , 2002 , 57, 325-30	3.9	11
18	Evidences for shared features in the organization of the basal ganglia in tetrapods: studies in amphibians. <i>European Journal of Morphology</i> , 1999 , 37, 151-4		9
17	CXCL12-mediated murine neural progenitor cell movement requires PI3K β activation. <i>Molecular Neurobiology</i> , 2013 , 48, 217-31	6.2	8
16	Cxcl12/Cxcr4 signaling controls the migration and process orientation of A9-A10 dopaminergic neurons. <i>Journal of Cell Science</i> , 2013 , 126, e1-e1	5.3	8

15	Cajal-Retzius cells. <i>Current Biology</i> , 2012 , 22, R179	6.3	6
14	A new beginning for a broken mind: balancing neuregulin 1 reverses synaptic dysfunction. <i>Neuron</i> , 2013 , 78, 577-9	13.9	5
13	Subcellular sorting of neuregulins controls the assembly of excitatory-inhibitory cortical circuits. <i>ELife</i> , 2020 , 9,	8.9	5
12	Author response: A stochastic framework of neurogenesis underlies the assembly of neocortical cytoarchitecture 2019 ,		4
11	Heterogeneous progenitor cell behaviors underlie the assembly of neocortical cytoarchitecture		4
10	Orchestrated freedom: new insights into cortical neurogenesis. <i>Current Opinion in Neurobiology</i> , 2021 , 66, 48-56	7.6	4
9	Tangential Migration in the Telencephalon 2015 , 45-58		3
8	Mouse and human share conserved transcriptional programs for interneuron development. <i>Science</i> , 2021 , 374, eabj6641	33.3	3
7	Choline acetyltransferase immunoreactivity in the hypothalamoneurohypophysial system of the lamprey. <i>European Journal of Morphology</i> , 1999 , 37, 103-6		3
6	Localization of NADPH diaphorase/nitric oxide synthase and choline acetyltransferase in the spinal cord of the frog, <i>Rana perezi</i> . <i>Journal of Comparative Neurology</i> , 2000 , 419, 451-70	3.4	3
5	Basal ganglia organization in amphibians: Chemoarchitecture 1998 , 392, 285		2
4	Sculpting circuits: CRH interneurons modulate neuronal integration. <i>Developmental Cell</i> , 2014 , 30, 639-40.2	10.2	1
3	Input-specific control of interneuron numbers in nascent striatal networks.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2118430119	11.5	0
2	A postnatal function for Nkx2-1 in basal forebrain integrity (Commentary on Magno et al.). <i>European Journal of Neuroscience</i> , 2011 , 34, 1766	3.5	
1	Agustí González, an Inspirational Leader in Spanish Comparative Neuroanatomy. <i>Brain, Behavior and Evolution</i> , 2021 , 1-7	1.5	