

# AngÃ©lique Bordey

## List of Publications by Year in descending order

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96  
papers

6,043  
citations

71102

41  
h-index

74163

75  
g-index

100  
all docs

100  
docs citations

100  
times ranked

7272  
citing authors

#	ARTICLE	IF	CITATIONS
1	The astrocyte odyssey. <i>Progress in Neurobiology</i> , 2008, 86, 342-67.	5.7	428
2	Nonsynaptic GABA signaling in postnatal subventricular zone controls proliferation of GFAP-expressing progenitors. <i>Nature Neuroscience</i> , 2005, 8, 1179-1187.	14.8	395
3	MicroRNA miR-137 Regulates Neuronal Maturation by Targeting Ubiquitin Ligase Mind Bomb-1. <i>Stem Cells</i> , 2010, 28, 1060-1070.	3.2	349
4	GABA Release and Uptake Regulate Neuronal Precursor Migration in the Postnatal Subventricular Zone. <i>Journal of Neuroscience</i> , 2004, 24, 7623-7631.	3.6	295
5	Properties of human glial cells associated with epileptic seizure foci. <i>Epilepsy Research</i> , 1998, 32, 286-303.	1.6	239
6	NMDA Receptors Activated by Subventricular Zone Astrocytic Glutamate Are Critical for Neuroblast Survival Prior to Entering a Synaptic Network. <i>Neuron</i> , 2010, 65, 859-872.	8.1	206
7	GABA Depolarizes Neuronal Progenitors of the Postnatal Subventricular Zone Via GABA A Receptor Activation. <i>Journal of Physiology</i> , 2003, 550, 785-800.	2.9	173
8	GFAP-expressing cells in the postnatal subventricular zone display a unique glial phenotype intermediate between radial glia and astrocytes. <i>Glia</i> , 2006, 54, 394-410.	4.9	154
9	Postnatal Development of Ionic Currents in Rat Hippocampal Astrocytes In Situ. <i>Journal of Neurophysiology</i> , 1997, 78, 461-477.	1.8	150
10	Single-cell Tsc1 knockout during corticogenesis generates tuber-like lesions and reduces seizure threshold in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 1596-1607.	8.2	140
11	Refuting the challenges of the developmental shift of polarity of GABA actions: GABA more exciting than ever!. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 35.	3.7	139
12	mTORC1 Targets the Translational Repressor 4E-BP2, but Not S6 Kinase 1/2, to Regulate Neural Stem Cell Self-Renewal In Vivo. <i>Cell Reports</i> , 2013, 5, 433-444.	6.4	124
13	miR-132 Enhances Dendritic Morphogenesis, Spine Density, Synaptic Integration, and Survival of Newborn Olfactory Bulb Neurons. <i>PLoS ONE</i> , 2012, 7, e38174.	2.5	117
14	GABA's Control of Stem and Cancer Cell Proliferation in Adult Neural and Peripheral Niches. <i>Physiology</i> , 2009, 24, 171-185.	3.1	109
15	Neurotransmitters couple brain activity to subventricular zone neurogenesis. <i>European Journal of Neuroscience</i> , 2011, 33, 1123-1132.	2.6	105
16	GFAP-GFP neural progenitors are antigenically homogeneous and anchored in their enclosed mosaic niche. <i>Glia</i> , 2009, 57, 66-78.	4.9	100
17	Electrophysiological Properties of Human Astrocytic Tumor Cells In Situ: Enigma of Spiking Glial Cells. <i>Journal of Neurophysiology</i> , 1998, 79, 2782-2793.	1.8	97
18	Noncanonical Sites of Adult Neurogenesis in the Mammalian Brain. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a018846.	5.5	96

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19	Control of neuroblast production and migration by converging GABA and glutamate signals in the postnatal forebrain. <i>Journal of Physiology</i> , 2008, 586, 3739-3743.	2.9	94
20	A symphony of signals conducts early and late stages of adult neurogenesis. <i>Neuropharmacology</i> , 2010, 58, 865-876.	4.1	90
21	mTOR Hyperactivity Levels Influence the Severity of Epilepsy and Associated Neuropathology in an Experimental Model of Tuberous Sclerosis Complex and Focal Cortical Dysplasia. <i>Journal of Neuroscience</i> , 2019, 39, 2762-2773.	3.6	84
22	Neurotransmitter signaling in postnatal neurogenesis: The first leg. <i>Brain Research Reviews</i> , 2010, 63, 60-71.	9.0	81
23	Convulsive seizures from experimental focal cortical dysplasia occur independently of cell misplacement. <i>Nature Communications</i> , 2016, 7, 11753.	12.8	78
24	An epigenetic mechanism mediates developmental nicotine effects on neuronal structure and behavior. <i>Nature Neuroscience</i> , 2016, 19, 905-914.	14.8	78
25	BDNF Promotes Axon Branching of Retinal Ganglion Cells via miRNA-132 and p250GAP. <i>Journal of Neuroscience</i> , 2014, 34, 969-979.	3.6	77
26	Gap junction-mediated calcium waves define communication networks among murine postnatal neural progenitor cells. <i>European Journal of Neuroscience</i> , 2011, 34, 1895-1905.	2.6	74
27	Embryonic Cerebrospinal Fluid Nanovesicles Carry Evolutionarily Conserved Molecules and Promote Neural Stem Cell Amplification. <i>PLoS ONE</i> , 2014, 9, e88810.	2.5	74
28	A circuitry and biochemical basis for tuberous sclerosis symptoms: from epilepsy to neurocognitive deficits. <i>International Journal of Developmental Neuroscience</i> , 2013, 31, 667-678.	1.6	72
29	Glial Glutamate Transporters Limit Spillover Activation of Presynaptic NMDA Receptors and Influence Synaptic Inhibition of Purkinje Neurons. <i>Journal of Neuroscience</i> , 2004, 24, 5659-5669.	3.6	71
30	NKCC1 Knockdown Decreases Neuron Production through GABA <sub>A</sub> -Regulated Neural Progenitor Proliferation and Delays Dendrite Development. <i>Journal of Neuroscience</i> , 2012, 32, 13630-13638.	3.6	65
31	Postnatal neurogenesis generates heterotopias, olfactory micronodules and cortical infiltration following single-cell Tsc1 deletion. <i>Human Molecular Genetics</i> , 2012, 21, 799-810.	2.9	64
32	Neural Progenitor Cells Regulate Capillary Blood Flow in the Postnatal Subventricular Zone. <i>Journal of Neuroscience</i> , 2012, 32, 16435-16448.	3.6	64
33	Enigmatic GABAergic networks in adult neurogenic zones. <i>Brain Research Reviews</i> , 2007, 53, 124-134.	9.0	59
34	GABAA increases calcium in subventricular zone astrocyte-like cells through L- and T-type voltage-gated calcium channels. <i>Frontiers in Cellular Neuroscience</i> , 2010, 4, 8.	3.7	57
35	GABAA Receptors, Anesthetics and Anticonvulsants in Brain Development. <i>CNS and Neurological Disorders - Drug Targets</i> , 2008, 7, 211-224.	1.4	55
36	Olfactory ensheathing cell membrane properties are shaped by connectivity. <i>Glia</i> , 2010, 58, 665-678.	4.9	54

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37	Tonic activation of GLU<sub>K5</sub> kainate receptors decreases neuroblast migration in wholeâ€œmounts of the subventricular zone. <i>Journal of Physiology</i> , 2008, 586, 3783-3793.	2.9	52
38	Normalizing translation through 4E-BP prevents mTOR-driven cortical mislamination and ameliorates aberrant neuron integration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11330-11335.	7.1	51
39	Adult Neurogenesis: Basic Concepts of Signaling. <i>Cell Cycle</i> , 2006, 5, 722-728.	2.6	48
40	Imaging and recording subventricular zone progenitor cells in live tissue of postnatal mice. <i>Frontiers in Neuroscience</i> , 2010, 4, .	2.8	46
41	Newborn cortical neurons: only for neonates?. <i>Trends in Neurosciences</i> , 2013, 36, 51-61.	8.6	46
42	MEK-ERK1/2-Dependent FLNA Overexpression Promotes Abnormal Dendritic Patterning in Tuberous Sclerosis Independent of mTOR. <i>Neuron</i> , 2014, 84, 78-91.	8.1	45
43	<scp>GATOR</scp>opathies: The role of amino acid regulatory gene mutations in epilepsy and cortical malformations. <i>Epilepsia</i> , 2019, 60, 2163-2173.	5.1	45
44	Bergmann glial GlyT1 mediates glycine uptake and release in mouse cerebellar slices. <i>Journal of Physiology</i> , 2004, 560, 721-736.	2.9	44
45	GABA and glutamate signaling: homeostatic control of adult forebrain neurogenesis. <i>Journal of Molecular Histology</i> , 2007, 38, 303-311.	2.2	44
46	Rheb Activation in Subventricular Zone Progenitors Leads to Heterotopia, Ectopic Neuronal Differentiation, and Rapamycin-Sensitive Olfactory Micronodules and Dendrite Hypertrophy of Newborn Neurons. <i>Journal of Neuroscience</i> , 2013, 33, 2419-2431.	3.6	44
47	Outbred CD1 mice are as suitable as inbred C57BL/6J mice in performing social tasks. <i>Neuroscience Letters</i> , 2017, 637, 142-147.	2.1	42
48	Chemokine modulation of high-conductance Ca <sup>2+</sup> -sensitive K <sup>+</sup> currents in microglia from human hippocampi. <i>European Journal of Neuroscience</i> , 2003, 18, 2893-2898.	2.6	41
49	Activating the translational repressor 4E-BP or reducing S6K-GSK3 <sup>Î²</sup> activity prevents accelerated axon growth induced by hyperactive mTOR<i>in vivo</i>. <i>Human Molecular Genetics</i> , 2015, 24, 5746-5758.	2.9	41
50	Ependymal cells along the lateral ventricle express functional P2X7 receptors. <i>Purinergic Signalling</i> , 2009, 5, 299-307.	2.2	40
51	Modulation of Glutamatergic Transmission by Bergmann Glial Cells in Rat Cerebellum In Situ. <i>Journal of Neurophysiology</i> , 2003, 89, 979-988.	1.8	37
52	Differential Inhibition of Glial K<sup>+</sup> Currents by 4-AP. <i>Journal of Neurophysiology</i> , 1999, 82, 3476-3487.	1.8	35
53	Carrierâ€œmediated uptake and release of taurine from Bergmann glia in rat cerebellar slices. <i>Journal of Physiology</i> , 2002, 541, 753-767.	2.9	34
54	GABA and glutamate signaling: homeostatic control of adult forebrain neurogenesis. <i>Journal of Molecular Histology</i> , 2007, 38, 601-610.	2.2	33

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55	Astroglial cells in the external granular layer are precursors of cerebellar granule neurons in neonates. <i>Molecular and Cellular Neurosciences</i> , 2010, 44, 362-373.	2.2	33
56	Imaging and optogenetic modulation of vascular mural cells in the live brain. <i>Nature Protocols</i> , 2021, 16, 472-496.	12.0	32
57	Mammalian FMRP S499 Is Phosphorylated by CK2 and Promotes Secondary Phosphorylation of FMRP. <i>ENeuro</i> , 2016, 3, ENEURO.0092-16.2016.	1.9	31
58	GABAergic striatal neurons project dendrites and axons into the postnatal subventricular zone leading to calcium activity. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 10.	3.7	30
59	Convergent and Divergent Mechanisms of Epileptogenesis in mTORopathies. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 664695.	1.7	30
60	FMRP S499 Is Phosphorylated Independent of mTORC1-S6K1 Activity. <i>PLoS ONE</i> , 2014, 9, e96956.	2.5	30
61	Filamin A inhibition reduces seizure activity in a mouse model of focal cortical malformations. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	29
62	Ectopic HCN4 expression drives mTOR-dependent epilepsy in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	27
63	S Phase Entry of Neural Progenitor Cells Correlates with Increased Blood Flow in the Young Subventricular Zone. <i>PLoS ONE</i> , 2012, 7, e31960.	2.5	26
64	Distinct electrophysiological alterations in dentate gyrus versus CA1 glial cells from epileptic humans with temporal lobe sclerosis. <i>Epilepsy Research</i> , 2004, 59, 107-122.	1.6	24
65	Assays for measuring extracellular GABA levels and cell migration rate in acute slices. <i>Brain Research Protocols</i> , 2005, 14, 126-134.	1.6	22
66	Neonatal Subventricular Zone Electroporation. <i>Journal of Visualized Experiments</i> , 2013, , .	0.3	21
67	Valnoctamide Inhibits Cytomegalovirus Infection in Developing Brain and Attenuates Neurobehavioral Dysfunctions and Brain Abnormalities. <i>Journal of Neuroscience</i> , 2017, 37, 6877-6893.	3.6	20
68	Activation of adenosine A2B receptors enhances ciliary beat frequency in mouse lateral ventricle ependymal cells. <i>Cerebrospinal Fluid Research</i> , 2009, 6, 15.	0.5	19
69	Hypervascularization in mTOR-dependent focal and global cortical malformations displays differential rapamycin sensitivity. <i>Epilepsia</i> , 2019, 60, 1255-1265.	5.1	17
70	Electrophysiological Evidence for Multiple Glycinergic Inputs to Neonatal Rat Sympathetic Preganglionic Neurons In Vitro. <i>European Journal of Neuroscience</i> , 1997, 9, 1711-1719.	2.6	16
71	Switching on mTORC1 induces neurogenesis but not proliferation in neural stem cells of young mice. <i>Neuroscience Letters</i> , 2016, 614, 112-118.	2.1	15
72	Expression of 4E-BP1 in juvenile mice alleviates mTOR-induced neuronal dysfunction and epilepsy. <i>Brain</i> , 2022, 145, 1310-1325.	7.6	15

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73	GABA increases Ca <sup>2+</sup> in cerebellar granule cell precursors via depolarization: Implications for proliferation. IUBMB Life, 2009, 61, 496-503.	3.4	14
74	Prostaglandin E2 induces glutamate release from subventricular zone astrocytes. Neuron Glia Biology, 2010, 6, 201-207.	1.6	14
75	Hypoxia-inducible factor 1a is a Tsc1-regulated survival factor in newborn neurons in tuberous sclerosis complex. Human Molecular Genetics, 2013, 22, 1725-1734.	2.9	13
76	Inhibition of MEK-ERK signaling reduces seizures in two mouse models of tuberous sclerosis complex. Epilepsy Research, 2022, 181, 106890.	1.6	10
77	Voltage-dependent K <sup>+</sup> currents contribute to heterogeneity of olfactory ensheathing cells. Glia, 2015, 63, 1646-1659.	4.9	9
78	Hypoxia-inducible factor-1a contributes to dendritic overgrowth in tuberous sclerosis. Neuroscience Letters, 2016, 612, 43-47.	2.1	9
79	Tsc1 haploinsufficiency is sufficient to increase dendritic patterning and Filamin A levels. Neuroscience Letters, 2016, 629, 15-18.	2.1	7
80	Small Extracellular Vesicles Control Dendritic Spine Development through Regulation of HDAC2 Signaling. Journal of Neuroscience, 2021, 41, 3799-3807.	3.6	7
81	Dual in Utero Electroporation in Mice to Manipulate Two Specific Neuronal Populations in the Developing Cortex. Frontiers in Bioengineering and Biotechnology, 2021, 9, 814638.	4.1	6
82	Current Review in Basic Science: Animal Models of Focal Cortical Dysplasia and Epilepsy. Epilepsy Currents, 2022, 22, 234-240.	0.8	6
83	Preimplantation factor modulates oligodendrocytes by H19-induced demethylation of NCOR2. JCI Insight, 2021, 6, .	5.0	5
84	Transient mGlu5R inhibition enhances the survival of granule cell precursors in the neonatal cerebellum. Neuroscience, 2012, 219, 271-279.	2.3	4
85	Rab27a-Dependent Paracrine Communication Controls Dendritic Spine Formation and Sensory Responses in the Barrel Cortex. Cells, 2021, 10, 622.	4.1	4
86	CD-1 Outbred Mice Produce Less Variable Ultrasonic Vocalizations Than FVB Inbred Mice, While Displaying a Similar Developmental Trajectory. Frontiers in Psychiatry, 2021, 12, 687060.	2.6	4
87	Adult-born neuron development is controlled by GABAA receptor subtypes (Commentary on Dubeau) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	3
88	In utero electroporation-based translating ribosome affinity purification identifies age-dependent mRNA expression in cortical pyramidal neurons. Neuroscience Research, 2019, 143, 44-52.	1.9	3
89	Treating Seizures With Low-Frequency Electrical Stimulation. Epilepsy Currents, 2021, 21, 197-198.	0.8	2
90	Control of Adult-Born Neuron Production by Converging GABA and Glutamate Signals. , 2011, , 395-406.		2

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91	Neuro2D Lies at the Nexus of Autism, Epilepsy, and Intellectual Disabilities. <i>Epilepsy Currents</i> , 2022, 22, 132-134.	0.8	2
92	Preparation of Acute Subventricular Zone Slices for Calcium Imaging. <i>Journal of Visualized Experiments</i> , 2012, , e4071.	0.3	1
93	Treating Post-Traumatic Seizures to Limit Tau Accumulation in Larval Zebrafish. <i>Epilepsy Currents</i> , 2021, 21, 285-286.	0.8	1
94	More neurons for respiratory adaptation: Is neurogenesis at work?. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 118-119.	1.6	0
95	The stem cell journey: From paradise to purgatory. <i>Neuropharmacology</i> , 2010, 58, 833-834.	4.1	0
96	Postnatal Neurogenesis in the Subventricular Zone: A Manipulable Source for CNS Plasticity and Repair. , 2013, , .		0