

# Gerardo Biella

## List of Publications by Year in descending order

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40  
papers

2,373  
citations

304743

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all docs

41  
docs citations

41  
times ranked

3693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Niche-Independent Symmetrical Self-Renewal of a Mammalian Tissue Stem Cell. PLoS Biology, 2005, 3, e283.	5.6	761
2	Long-term tripotent differentiation capacity of human neural stem (NS) cells in adherent culture. Molecular and Cellular Neurosciences, 2008, 38, 245-258.	2.2	199
3	Developmentally coordinated extrinsic signals drive human pluripotent stem cell differentiation toward authentic DARPP-32+ medium-sized spiny neurons. Development (Cambridge), 2013, 140, 301-312.	2.5	146
4	Activity-Dependent pH Shifts and Periodic Recurrence of Spontaneous Interictal Spikes in a Model of Focal Epileptogenesis. Journal of Neuroscience, 1998, 18, 7543-7551.	3.6	144
5	Olfactory Inputs Activate the Medial Entorhinal Cortex Via the Hippocampus. Journal of Neurophysiology, 2000, 83, 1924-1931.	1.8	81
6	Simultaneous investigation of the neuronal and vascular compartments in the guinea pig brain isolated in vitro. Brain Research Protocols, 1998, 3, 221-228.	1.6	79
7	Evidence for Spatial Modules Mediated by Temporal Synchronization of Carbachol-Induced Gamma Rhythm in Medial Entorhinal Cortex. Journal of Neuroscience, 2000, 20, 7846-7854.	3.6	78
8	Molecular and functional definition of the developing human striatum. Nature Neuroscience, 2014, 17, 1804-1815.	14.8	65
9	Transient oxytocin signaling primes the development and function of excitatory hippocampal neurons. ELife, 2017, 6, .	6.0	63
10	Human Pluripotent Stem Cell Differentiation into Authentic Striatal Projection Neurons. Stem Cell Reviews and Reports, 2013, 9, 461-474.	5.6	60
11	Propagation of Neuronal Activity along the Neocorticalâ€“Perirhinalâ€“Entorhinal Pathway in the Guinea Pig. Journal of Neuroscience, 2002, 22, 9972-9979.	3.6	55
12	Network Activity Evoked by Neocortical Stimulation in Area 36 of the Guinea Pig Perirhinal Cortex. Journal of Neurophysiology, 2001, 86, 164-172.	1.8	45
13	Slow Periodic Events and Their Transition to Gamma Oscillations in the Entorhinal Cortex of the Isolated Guinea Pig Brain. Journal of Neurophysiology, 2003, 90, 39-46.	1.8	43
14	Persistent Excitability Changes in the Piriform Cortex of the Isolated Guinea-pig Brain after Transient Exposure to Bicuculline. European Journal of Neuroscience, 1997, 9, 435-451.	2.6	40
15	Inhibiting pathologically active ADAM10 rescues synaptic and cognitive decline in Huntingtonâ€™s disease. Journal of Clinical Investigation, 2019, 129, 2390-2403.	8.2	38
16	Associative Synaptic Potentials in the Piriform Cortex of the Isolated Guinea-pig Brain In Vitro. European Journal of Neuroscience, 1995, 7, 54-64.	2.6	36
17	Preservation of positional identity in fetus-derived neural stem (NS) cells from different mouse central nervous system compartments. Cellular and Molecular Life Sciences, 2011, 68, 1769-1783.	5.4	34
18	Discharge threshold is enhanced for several seconds after a single interictal spike in a model of focal epileptogenesis. European Journal of Neuroscience, 2001, 14, 174-178.	2.6	30

#	ARTICLE	IF	CITATIONS
19	Differentiation of human telencephalic progenitor cells into MSNs by inducible expression of Gsx2 and Ebf1. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1234-E1242.	7.1	28
20	Resurgent Na <sup>+</sup> -current in pyramidal neurones of rat perirhinal cortex: axonal location of channels and contribution to depolarizing drive during repetitive firing. Journal of Physiology, 2007, 582, 1179-1193.	2.9	27
21	Loss of Either Rac1 or Rac3 GTPase Differentially Affects the Behavior of Mutant Mice and the Development of Functional GABAergic Networks. Cerebral Cortex, 2016, 26, bhv274.	2.9	27
22	Cytoarchitectonic characterization of the parahippocampal region of the guinea pig. Journal of Comparative Neurology, 2004, 474, 289-303.	1.6	26
23	Mesenchymal stem cells enhance GABAergic transmission in co-cultured hippocampal neurons. Molecular and Cellular Neurosciences, 2012, 49, 395-405.	2.2	26
24	Arterial supply of limbic structures in the guinea pig. , 1999, 411, 674-682.		25
25	Associative Interactions Within the Superficial Layers of the Entorhinal Cortex of the Guinea Pig. Journal of Neurophysiology, 2002, 88, 1159-1165.	1.8	24
26	Stem Cell-Derived Human Striatal Progenitors Innervate Striatal Targets and Alleviate Sensorimotor Deficit in a Rat Model of Huntington Disease. Stem Cell Reports, 2020, 14, 876-891.	4.8	24
27	Oxytocin Increases Phasic and Tonic GABAergic Transmission in CA1 Region of Mouse Hippocampus. Frontiers in Cellular Neuroscience, 2019, 13, 178.	3.7	23
28	A Novel High Channel-Count System for Acute Multisite Neuronal Recordings. IEEE Transactions on Biomedical Engineering, 2006, 53, 1672-1677.	4.2	18
29	NMDA receptors elicit flux-independent intracellular Ca <sup>2+</sup> signals via metabotropic glutamate receptors and flux-dependent nitric oxide release in human brain microvascular endothelial cells. Cell Calcium, 2021, 99, 102454.	2.4	18
30	<i>SREBP2</i> gene therapy targeting striatal astrocytes ameliorates Huntington's disease phenotypes. Brain, 2021, 144, 3175-3190.	7.6	17
31	Propagation of epileptiform potentials in the guinea-pig piriform cortex is sustained by associative fibres. Epilepsy Research, 1996, 24, 137-146.	1.6	16
32	Interactions between Associative Synaptic Potentials in the Piriform Cortex of the In Vitro Isolated Guinea Pig Brain. European Journal of Neuroscience, 1996, 8, 1350-1357.	2.6	16
33	Functional Interactions Within the Parahippocampal Region Revealed by Voltage-Sensitive Dye Imaging in the Isolated Guinea Pig Brain. Journal of Neurophysiology, 2010, 103, 725-732.	1.8	14
34	Striatal infusion of cholesterol promotes dose-dependent behavioral benefits and exerts disease-modifying effects in Huntington's disease mice. EMBO Molecular Medicine, 2020, 12, e12519.	6.9	13
35	Epileptiform activity in the piriform cortex of the in vitro isolated guinea pig brain preparation. Epilepsy Research, 1996, 26, 75-80.	1.6	10
36	Retinoic acid and phorbol ester-induced neuronal differentiation down-regulates caveolin expression in GnRH neurons. Journal of Neurochemistry, 2008, 104, 1577-1587.	3.9	9

#	ARTICLE	IF	CITATIONS
37	Piriform cortex ictogenicity in vitro. <i>Experimental Neurology</i> , 2019, 321, 113014.	4.1	9
38	Multifunctional Liposomes Modulate Purinergic Receptor-Induced Calcium Wave in Cerebral Microvascular Endothelial Cells and Astrocytes: New Insights for Alzheimer's disease. <i>Molecular Neurobiology</i> , 2021, 58, 2824-2835.	4.0	5
39	Translational potential of cholesterol supplementation-based strategies for huntington's disease. , 2018, , .		1
40	SREBP2 delivery to striatal astrocytes normalizes transcription of cholesterol biosynthesis genes and ameliorates pathological features in huntington's disease. , 2021, , .		0