Jose-Rodrigo Rodriguez

List of Publications by Year
in descending order

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Version: 2024-02-01

34 papers	3,071 citations	279798 23 h-index	395702 33 g-index
36 all docs	36 docs citations	36 times ranked	4088 citing authors

#	Article	IF	Citations
1	Reconstruction and Simulation of Neocortical Microcircuitry. Cell, 2015, 163, 456-492.	28.9	1,258
2	Aromatase expression by astrocytes after brain injury: implications for local estrogen formation in brain repair. Neuroscience, 1999, 89, 567-578.	2.3	336
3	Gender differences in human cortical synaptic density. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14615-14619.	7.1	170
4	Counting synapses using FIB/SEM microscopy: a true revolution for ultrastructural volume reconstruction. Frontiers in Neuroanatomy, 2009, 3, 18.	1.7	167
5	Localization of the insulin-like growth factor I receptor in the cerebellum and hypothalamus of adult rats: an electron microscopic study. Journal of Neurocytology, 1997, 26, 479-490.	1.5	111
6	Diminished perisomatic GABAergic terminals on cortical neurons adjacent to amyloid plaques. Frontiers in Neuroanatomy, 2009, 3, 28.	1.7	105
7	Age-Independent Synaptogenesis by Phosphoinositide 3 Kinase. Journal of Neuroscience, 2006, 26, 10199-10208.	3.6	95
8	Three-Dimensional Spatial Distribution of Synapses in the Neocortex: A Dual-Beam Electron Microscopy Study. Cerebral Cortex, 2014, 24, 1579-1588.	2.9	68
9	Espina: A Tool for the Automated Segmentation and Counting of Synapses in Large Stacks of Electron Microscopy Images. Frontiers in Neuroanatomy, 2011, 5, 18.	1.7	64
10	Cell types and coincident synapses in the ellipsoid body of Drosophila. European Journal of Neuroscience, 2014, 39, 1586-1601.	2.6	62
11	Study of the Size and Shape of Synapses in the Juvenile Rat Somatosensory Cortex with 3D Electron Microscopy. ENeuro, 2018, 5, ENEURO.0377-17.2017.	1.9	53
12	FIB/SEM Technology and Alzheimer's Disease: Three-Dimensional Analysis of Human Cortical Synapses. Journal of Alzheimer's Disease, 2013, 34, 995-1013.	2.6	52
13	Volume electron microscopy of the distribution of synapses in the neuropil of the juvenile rat somatosensory cortex. Brain Structure and Function, 2018, 223, 77-90.	2.3	51
14	Three-dimensional distribution of cortical synapses: a replicated point pattern-based analysis. Frontiers in Neuroanatomy, 2014, 8, 85.	1.7	49
15	High plasticity of axonal pathology in Alzheimerâ€™s disease mouse models. Acta Neuropathologica Communications, 2017, 5, 14.	5.2	48
16	Differential distribution of neurons in the gyral white matter of the human cerebral cortex. Journal of Comparative Neurology, 2010, 518, 4740-4759.	1.6	47
17	Transcription of Drosophila Troponin I Gene Is Regulated by Two Conserved, Functionally Identical, Synergistic Elements. Molecular Biology of the Cell, 2004, 15, 1185-1196.	2.1	39
18	Estimation of the number of synapses in the hippocampus and brain-wide by volume electron microscopy and genetic labeling. Scientific Reports, 2020, 10, 14014.	3.3	39

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19	Ultrastructural, Molecular and Functional Mapping of GABAergic Synapses on Dendritic Spines and Shafts of Neocortical Pyramidal Neurons. Cerebral Cortex, 2019, 29, 2771-2781.	2.9	34
20	Characterization and extraction of the synaptic apposition surface for synaptic geometry analysis. Frontiers in Neuroanatomy, 2013, 7, 20.	1.7	33
21	In vitro myelination by oligodendrocyte precursor cells transfected with the neurotrophin-3 gene. Glia, 2004, 47, 78-87.	4.9	32
22	Proximity of excitatory and inhibitory axon terminals adjacent to pyramidal cell bodies provides a putative basis for nonsynaptic interactions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9878-9883.	7.1	27
23	A Stereological Study of Synapse Number in the Epileptic Human Hippocampus. Frontiers in Neuroanatomy, 2011, 5, 8.	1.7	27
24	Mitochondrial c-Jun NH2-Terminal Kinase Prevents the Accumulation of Reactive Oxygen Species and Reduces Necrotic Damage in Neural Tumor Cells that Lack Trophic Support. Molecular Cancer Research, 2007, 5, 47-60.	3.4	22
25	A Fast Method for the Segmentation of Synaptic Junctions and Mitochondria in Serial Electron Microscopic Images of the Brain. Neuroinformatics, 2016, 14, 235-250.	2.8	22
26	Long-term evolution of local, proximal and remote astrocyte responses after diverse nucleus basalis lesioning (an experimental Alzheimer model): GFAP immunocytochemical study. Brain Research, 2000, 865, 245-258.	2.2	17
27	Myr+-Gi2Î± and GoÎ± subunits restore the efficacy of opioids, clonidine and neurotensin giving rise to antinociception in G-protein knock-down mice. Neuropharmacology, 1999, 38, 1861-1873.	4.1	16
28	Transport of CSF antibodies to GÎ± subunits across neural membranes requires binding to the target protein and protein kinase C activity. Molecular Brain Research, 1999, 65, 151-166.	2.3	8
29	Expression of histone H1Â° in transcriptionally activated supraoptic neurons. Molecular Brain Research, 1995, 29, 317-324.	2.3	6
30	Neuroanatomy from Mesoscopic to Nanoscopic Scales: An Improved Method for the Observation of Semithin Sections by High-Resolution Scanning Electron Microscopy. Frontiers in Neuroanatomy, 2018, 12, 14.	1.7	5
31	FAST INTERACTIVE QUANTIFICATION OF SYNAPSES IN THE CEREBRAL CORTEX. International Journal on Artificial Intelligence Tools, 2011, 20, 239-252.	1.0	2
32	A differential evolution algorithm for the detection of synaptic vesicles. , 2011, , .		1
33	Pre-Embedding Immunostaining of Brain Tissue and Three-Dimensional Imaging with FIB-SEM. Neuromethods, 2021, , 285-302.	0.3	1
34	Single-Neuron Labeling in Fixed Tissue and Targeted Volume Electron Microscopy. Frontiers in Neuroanatomy, 2022, 16, 852057.	1.7	1