Didier Pinault

List of Publications by Year
in descending order

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47 papers	5,181 citations	185998 28 h-index	253896 43 g-index
50 all docs	50 docs citations	50 times ranked	4123 citing authors

#	Article	IF	Citations
1	A novel single-cell staining procedure performed in vivo under electrophysiological control: morpho-functional features of juxtacellularly labeled thalamic cells and other central neurons with biocytin or Neurobiotin. Journal of Neuroscience Methods, 1996, 65, 113-136.	1.3	944
2	The thalamic reticular nucleus: structure, function and concept. Brain Research Reviews, 2004, 46, 1-31.	9.1	535
3	Corticothalamic Projections from the Cortical Barrel Field to the Somatosensory Thalamus in Rats: A Single-fibre Study Using Biocytin as an Anterograde Tracer. European Journal of Neuroscience, 1995, 7, 19-30.	1.2	354
4	Golgi-like labeling of a single neuron recorded extracellularly. Neuroscience Letters, 1994, 170, 255-260.	1.0	321
5	N-Methyl d-Aspartate Receptor Antagonists Ketamine and MK-801 Induce Wake-Related Aberrant Î³ Oscillations in the Rat Neocortex. Biological Psychiatry, 2008, 63, 730-735.	0.7	296
6	Corticothalamic projections from layer V cells in rat are collaterals of long-range corticofugal axons. Brain Research, 1994, 664, 215-219.	1.1	235
7	Intracellular recordings in thalamic neurones during spontaneous spike and wave discharges in rats with absence epilepsy. Journal of Physiology, 1998, 509, 449-456.	1.3	218
8	NMDA Receptor Hypofunction Leads to Generalized and Persistent Aberrant Î³ Oscillations Independent of Hyperlocomotion and the State of Consciousness. PLoS ONE, 2009, 4, e6755.	1.1	209
9	Projection and innervation patterns of individual thalamic reticular axons in the thalamus of the adult rat: A three-dimensional, graphic, and morphometric analysis. , 1998, 391, 180-203.		169
10	The Axonal Arborization of Single Thalamic Reticular Neurons in the Somatosensory Thalamus of the Rat. European Journal of Neuroscience, 1995, 7, 31-40.	1.2	141
11	Voltage-dependent 40-Hz oscillations in rat reticular thalamic neurons in vivo. Neuroscience, 1992, 51, 245-258.	1.1	131
12	Medium-voltage 5â€“9-Hz oscillations give rise to spike-and-wave discharges in a genetic model of absence epilepsy: in vivo dual extracellular recording of thalamic relay and reticular neurons. Neuroscience, 2001, 105, 181-201.	1.1	128
13	Cellular interactions in the rat somatosensory thalamocortical system during normal and epileptic 5â€“9 Hz oscillations. Journal of Physiology, 2003, 552, 881-905.	1.3	128
14	Dendrodendritic and Axoaxonic Synapses in the Thalamic Reticular Nucleus of the Adult Rat. Journal of Neuroscience, 1997, 17, 3215-3233.	1.7	123
15	Anatomical evidence for a mechanism of lateral inhibition in the rat thalamus. European Journal of Neuroscience, 1998, 10, 3462-3469.	1.2	115
16	Single striatofugal axons arborizing in both pallidal segments and in the substantia nigra in primates. Brain Research, 1995, 698, 280-284.	1.1	99
17	Dysfunctional Thalamus-Related Networks in Schizophrenia. Schizophrenia Bulletin, 2011, 37, 238-243.	2.3	97
18	Acute administration of typical and atypical antipsychotics reduces EEG gamma power, but only the preclinical compound LY379268 reduces the ketamine-induced rise in gamma power. International Journal of Neuropsychopharmacology, 2012, 15, 657-668.	1.0	95

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19	Backpropagation of action potentials generated at ectopic axonal loci: hypothesis that axon terminals integrate local environmental signals. Brain Research Reviews, 1995, 21, 42-92.	9.1	92
20	Cellular and network mechanisms of genetically-determined absence seizures. Thalamus & Related Systems, 2005, 3, 181.	0.5	89
21	Functional stabilization of weakened thalamic pacemaker channel regulation in rat absence epilepsy. Journal of Physiology, 2006, 575, 83-100.	1.3	64
22	Cortical Control of Zona Incerta. Journal of Neuroscience, 2007, 27, 1670-1681.	1.7	63
23	Corticothalamic 5-9 Hz oscillations are more pro-epileptogenic than sleep spindles in rats. Journal of Physiology, 2006, 574, 209-227.	1.3	59
24	Opposite effects of ketamine and deep brain stimulation on rat thalamocortical information processing. European Journal of Neuroscience, 2012, 36, 3407-3419.	1.2	57
25	Thalamic reticular input to the rat visual thalamus: a single fiber study using biocytin as an anterograde tracer. Brain Research, 1995, 670, 147-152.	1.1	56
26	A genetic epilepsy rat model displays endophenotypes of psychosis. Neurobiology of Disease, 2010, 39, 116-125.	2.1	51
27	Rhythmic neuronal activity in S2 somatosensory and insular cortices contribute to the initiation of absenceâ€related spikeâ€andâ€wave discharges. Epilepsia, 2012, 53, 1948-1958.	2.6	48
28	Chronic administration of antipsychotics attenuates ongoing and ketamine-induced increases in cortical Î³ oscillations. International Journal of Neuropsychopharmacology, 2014, 17, 1895-1904.	1.0	40
29	<scp>HCN</scp> channelopathy and cardiac electrophysiologic dysfunction in genetic and acquired rat epilepsy models. Epilepsia, 2014, 55, 609-620.	2.6	29
30	The origin of rhythmic fast subthreshold depolarizations in thalamic relay cells of rats under urethane anaesthesia. Brain Research, 1992, 595, 295-300.	1.1	28
31	Muscarinic inhibition of reticular thalamic cells by basal forebrain neurones. NeuroReport, 1992, 3, 1101-1104.	0.6	22
32	Enduring Effects of Early Life Stress on Firing Patterns of Hippocampal and Thalamocortical Neurons in Rats: Implications for Limbic Epilepsy. PLoS ONE, 2013, 8, e66962.	1.1	21
33	Neuregulin 1 Expression and Electrophysiological Abnormalities in the Neuregulin 1 Transmembrane Domain Heterozygous Mutant Mouse. PLoS ONE, 2015, 10, e0124114.	1.1	21
34	A new stabilizing craniotomyâ€“duratomy technique for single-cell anatomo-electrophysiological exploration of living intact brain networks. Journal of Neuroscience Methods, 2005, 141, 231-242.	1.3	19
35	TheN-Methyl d-Aspartate Glutamate Receptor Antagonist Ketamine Disrupts the Functional State of the Corticothalamic Pathway. Cerebral Cortex, 2017, 27, bhw168.	1.6	19
36	A Neurophysiological Perspective on a Preventive Treatment against Schizophrenia Using Transcranial Electric Stimulation of the Corticothalamic Pathway. Brain Sciences, 2017, 7, 34.	1.1	15

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37	The Juxtacellular Recording-Labeling Technique. Neuromethods, 2011, , 41-75.	0.2	13
38	The thalamic reticular nucleus does not send commissural projection to the contralateral parafascicular nucleus in the rat. Brain Research, 1995, 679, 123-134.	1.1	12
39	Ectopic axonal firing in an epileptic cortical focus is not triggered by thalamocortical volleys during the interictal stage. Brain Research, 1992, 576, 175-180.	1.1	9
40	DNA microarray unravels rapid changes in transcriptome of MK-801 treated rat brain. World Journal of Biological Chemistry, 2015, 6, 389.	1.7	5
41	Acute effect of carbamazepine on corticothalamic 5â€“9â€‹scp›H‹/scp›z and thalamocortical spindle (10â€“16â€‹scp›H‹/scp›z) oscillations in the rat. European Journal of Neuroscience, 2014, 39, 788-799.	1.2	4
42	N-Methyl D-Aspartate Receptor Antagonists Amplify Network Baseline Gamma Frequency (30â€“80 Hz) Oscillations: Noise and Signal. AIMS Neuroscience, 2014, 1, 169-182.	1.0	3
43	Special feature: deep brain stimulation. European Journal of Neuroscience, 2010, 32, 1067-1069.	1.2	1
44	Frontoparietal anodal tDCS reduces ketamine-induced oscillopathies. Translational Neuroscience, 2021, 12, 282-296.	0.7	1
45	463: Neuronal firing patterns of higher order thalamocortical neurons during Inter-ictal absence seizure transition: Potential implications for loss of consciousness. Journal of Clinical Neuroscience, 2008, 15, 365.	0.8	0
46	Brain and Heart Links: Alterations in Cardiac Function and HCN Channel Expression in Genetic Absence Epilepsy Rats from Strasbourg. Journal of Clinical Neuroscience, 2009, 16, 1520.	0.8	0
47	26. In vivo study of the impact of amygdala kindling on the firing pattern of single neurons in the thalamus in a genetic absence epilepsy rat model. Journal of Clinical Neuroscience, 2009, 16, 1533.	0.8	0