

# Jay M Baraban

## List of Publications by Citations

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98  
papers

6,375  
citations

39  
h-index

79  
g-index

108  
ext. papers

6,679  
ext. citations

6.9  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
98	Rapid increase of an immediate early gene messenger RNA in hippocampal neurons by synaptic NMDA receptor activation. <i>Nature</i> , <b>1989</b> , 340, 474-6	50.4	942
97	Oxidative stress induces apoptosis in embryonic cortical neurons. <i>Journal of Neurochemistry</i> , <b>1994</b> , 62, 376-9	6	479
96	L-type voltage-sensitive calcium channels mediate synaptic activation of immediate early genes. <i>Neuron</i> , <b>1991</b> , 7, 625-35	13.9	387
95	The EGR family of transcription-regulatory factors: progress at the interface of molecular and systems neuroscience. <i>Trends in Neurosciences</i> , <b>1999</b> , 22, 167-73	13.3	366
94	Disrupted-in-Schizophrenia 1 (DISC1) regulates spines of the glutamate synapse via Rac1. <i>Nature Neuroscience</i> , <b>2010</b> , 13, 327-32	25.5	323
93	Inositol trisphosphate receptor localization in brain: variable stoichiometry with protein kinase C. <i>Nature</i> , <b>1987</b> , 325, 159-61	50.4	240
92	Noradrenergic agonists and antagonists: effects on conditioned fear as measured by the potentiated startle paradigm. <i>Psychopharmacology</i> , <b>1979</b> , 65, 111-8	4.7	240
91	Expression of the APC tumor suppressor protein in oligodendroglia. <i>Glia</i> , <b>1996</b> , 17, 169-74	9	213
90	Rapid rise in transcription factor mRNAs in rat brain after electroshock-induced seizures. <i>Journal of Neurochemistry</i> , <b>1990</b> , 55, 1920-7	6	187
89	D1 dopamine receptor activation of multiple transcription factor genes in rat striatum. <i>Journal of Neurochemistry</i> , <b>1992</b> , 58, 1420-6	6	185
88	Activation of <i>arc</i> , a putative "effector" immediate early gene, by cocaine in rat brain. <i>Journal of Neurochemistry</i> , <b>1995</b> , 64, 2377-80	6	115
87	Hallucinogenic drug interactions at human brain 5-HT <sub>2</sub> receptors: implications for treating LSD-induced hallucinogenesis. <i>Psychopharmacology</i> , <b>1989</b> , 98, 495-9	4.7	107
86	Prazosin selectively antagonizes neuronal responses mediated by alpha <sub>1</sub> -adrenoceptors in brain. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>1981</b> , 317, 273-5	3.4	106
85	Beyond receptors: multiple second-messenger systems in brain. <i>Annals of Neurology</i> , <b>1987</b> , 21, 217-29	9.4	103
84	Excitation of hippocampal neurons by stimulation of glutamate Q <sub>p</sub> receptors. <i>European Journal of Pharmacology</i> , <b>1989</b> , 173, 235-7	5.3	94
83	Glutamate toxicity in immature cortical neurons precedes development of glutamate receptor currents. <i>Developmental Brain Research</i> , <b>1990</b> , 57, 146-50		86
82	Elevated extracellular calcium can prevent apoptosis via the calcium-sensing receptor. <i>Biochemical and Biophysical Research Communications</i> , <b>1998</b> , 249, 325-31	3.4	85

81	Demonstration of inositol 1,3,4,5-tetrakisphosphate receptor binding. <i>Biochemical and Biophysical Research Communications</i> , <b>1987</b> , 148, 1283-9	3.4	80
80	VEGF and Angiopoietin-1 exert opposing effects on cell junctions by regulating the Rho GEF Syx. <i>Journal of Cell Biology</i> , <b>2012</b> , 199, 1103-15	7.3	79
79	Selective expression of Narp, a secreted neuronal pentraxin, in orexin neurons. <i>Journal of Neurochemistry</i> , <b>2002</b> , 82, 1561-5	6	79
78	Identification of p42 mitogen-activated protein kinase as a tyrosine kinase substrate activated by maximal electroconvulsive shock in hippocampus. <i>Journal of Neurochemistry</i> , <b>1993</b> , 60, 330-6	6	74
77	Inhibition versus induction of apoptosis by proteasome inhibitors depends on concentration. <i>Cell Death and Differentiation</i> , <b>1998</b> , 5, 577-83	12.7	73
76	Reserpine suppression of dorsal raphe neuronal firing: mediation by adrenergic system. <i>European Journal of Pharmacology</i> , <b>1978</b> , 52, 27-36	5.3	68
75	Electroconvulsive treatment induces a rapid and transient increase in tyrosine phosphorylation of a 40-kilodalton protein associated with microtubule-associated protein 2 kinase activity. <i>Journal of Neurochemistry</i> , <b>1991</b> , 56, 147-52	6	64
74	Protein kinase C regulates smooth muscle tension in guinea-pig trachea and ileum. <i>European Journal of Pharmacology</i> , <b>1986</b> , 122, 19-27	5.3	59
73	A dominant negative Egr inhibitor blocks nerve growth factor-induced neurite outgrowth by suppressing c-Jun activation: role of an Egr/c-Jun complex. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 3845-54	6.6	58
72	Pharmacological characterization of phosphoinositide-linked glutamate receptor excitation of hippocampal neurons. <i>European Journal of Pharmacology</i> , <b>1990</b> , 186, 357-61	5.3	56
71	Somatodendritic localization of Translin, a component of the Translin/Trax RNA binding complex. <i>Journal of Neurochemistry</i> , <b>2000</b> , 75, 1754-62	6	49
70	Syx, a RhoA guanine exchange factor, is essential for angiogenesis in Vivo. <i>Circulation Research</i> , <b>2008</b> , 103, 710-6	15.7	48
69	Apoptotic death in an in vitro model of neuronal oxidative stress. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>1995</b> , 22, 309-10	3	48
68	A dominant negative inhibitor of the Egr family of transcription regulatory factors suppresses cerebellar granule cell apoptosis by blocking c-Jun activation. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 5893-901	6.6	47
67	Neuronal muscarinic responses: role of protein kinase C. <i>FASEB Journal</i> , <b>1988</b> , 2, 2575-83	0.9	47
66	Suppression of serotonergic neuronal firing by alpha-adrenoceptor antagonists: evidence against GABA mediation. <i>European Journal of Pharmacology</i> , <b>1980</b> , 66, 287-94	5.3	47
65	ERK and p38 inhibit the expression of 4E-BP1 repressor of translation through induction of Egr-1. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 18859-67	5.4	46
64	Chronic ethanol administration decreases phosphorylation of cyclic AMP response element-binding protein in granule cells of rat cerebellum. <i>Journal of Neurochemistry</i> , <b>1998</b> , 70, 224-32	6	46

63	Genetic and activity-dependent regulation of zif268 expression: association with spatial learning. <i>Hippocampus</i> , <b>1994</b> , 4, 559-68	3.5	44
62	Sequential expression of Egr-1 and Egr-3 in hippocampal granule cells following electroconvulsive stimulation. <i>Journal of Neurochemistry</i> , <b>1998</b> , 70, 1241-8	6	43
61	Blockade of NGF-induced neurite outgrowth by a dominant-negative inhibitor of the egr family of transcription regulatory factors. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 45-52	6.6	42
60	Major Egr3 isoforms are generated via alternate translation start sites and differ in their abilities to activate transcription. <i>Molecular and Cellular Biology</i> , <b>1999</b> , 19, 4711-8	4.8	39
59	The Translin/Trax RNA binding complex: clues to function in the nervous system. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2008</b> , 1779, 479-85	6	38
58	Prominent Narp expression in projection pathways and terminal fields. <i>Journal of Neurochemistry</i> , <b>2002</b> , 82, 935-44	6	37
57	Mapping miniature synaptic currents to single synapses using calcium imaging reveals heterogeneity in postsynaptic output. <i>Neuron</i> , <b>1995</b> , 15, 159-68	13.9	36
56	Intrahippocampal injection of pertussis toxin blocks adenosine suppression of synaptic responses. <i>Brain Research</i> , <b>1989</b> , 494, 359-64	3.7	35
55	Dendritic trafficking of brain-derived neurotrophic factor mRNA: regulation by translin-dependent and -independent mechanisms. <i>Journal of Neurochemistry</i> , <b>2011</b> , 116, 1112-21	6	34
54	Rescuing dicer defects via inhibition of an anti-dicing nuclease. <i>Cell Reports</i> , <b>2014</b> , 9, 1471-81	10.6	33
53	Tech: a RhoA GEF selectively expressed in hippocampal and cortical neurons. <i>Journal of Neurochemistry</i> , <b>2005</b> , 92, 850-8	6	32
52	Nuclear translocation of the SRF co-activator MAL in cortical neurons: role of RhoA signalling. <i>Journal of Neurochemistry</i> , <b>2005</b> , 94, 169-80	6	32
51	A selective role for neuronal activity regulated pentraxin in the processing of sensory-specific incentive value. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 13430-5	6.6	31
50	Developmental expression of the SRF co-activator MAL in brain: role in regulating dendritic morphology. <i>Journal of Neurochemistry</i> , <b>2006</b> , 98, 1778-88	6	30
49	The neuronal RhoA GEF, Tech, interacts with the synaptic multi-PDZ-domain-containing protein, MUPP1. <i>Journal of Neurochemistry</i> , <b>2008</b> , 106, 1287-97	6	28
48	Regulation of immediate early genes in brain: role of NMDA receptor activation. <i>Progress in Brain Research</i> , <b>1990</b> , 86, 277-85	2.9	28
47	High-Frequency Stimulation at the Subthalamic Nucleus Suppresses Excessive Self-Grooming in Autism-Like Mouse Models. <i>Neuropsychopharmacology</i> , <b>2016</b> , 41, 1813-21	8.7	26
46	Rapid increases in peptide processing enzyme expression in hippocampal neurons. <i>Journal of Neurochemistry</i> , <b>1993</b> , 61, 1315-22	6	26

45	PLEKHG5 deficiency leads to an intermediate form of autosomal-recessive Charcot-Marie-Tooth disease. <i>Human Molecular Genetics</i> , <b>2013</b> , 22, 4224-32	5.6	25
44	High basal expression of zif268 in cortex is dependent on intact noradrenergic system. <i>European Journal of Pharmacology</i> , <b>1992</b> , 227, 447-8		25
43	Identification of translin and trax as components of the GS1 strand-specific DNA binding complex enriched in brain. <i>Journal of Neurochemistry</i> , <b>1998</b> , 71, 471-7	6	24
42	Behavioral effects of cocaine mediated by nitric oxide-GAPDH transcriptional signaling. <i>Neuron</i> , <b>2013</b> , 78, 623-30	13.9	23
41	Opiate withdrawal induces Narp in the extended amygdala. <i>Neuropsychopharmacology</i> , <b>2003</b> , 28, 1606-18.7		23
40	Trax is a component of the Translin-containing RNA binding complex. <i>Journal of Neurochemistry</i> , <b>2002</b> , 83, 202-10	6	23
39	Serum deprivation inhibits glutathione depletion-induced death in embryonic cortical neurons: evidence against oxidative stress as a final common mediator of neuronal apoptosis. <i>Neurochemistry International</i> , <b>1996</b> , 29, 153-7	4.4	21
38	Learning induces the translin/trax RNase complex to express activin receptors for persistent memory. <i>ELife</i> , <b>2017</b> , 6,	8.9	20
37	Narp deletion blocks extinction of morphine place preference conditioning. <i>Neuropsychopharmacology</i> , <b>2009</b> , 34, 857-66	8.7	19
36	Localized disruption of Narp in medial prefrontal cortex blocks reinforcer devaluation performance. <i>Learning and Memory</i> , <b>2010</b> , 17, 620-6	2.8	17
35	Phorbol esters: probes of protein kinase C function in the brain. <i>Trends in Neurosciences</i> , <b>1987</b> , 10, 57-58	13.3	16
34	Narp regulates long-term aversive effects of morphine withdrawal. <i>Behavioral Neuroscience</i> , <b>2008</b> , 122, 760-8	2.1	15
33	Role of medial prefrontal cortex Narp in the extinction of morphine conditioned place preference. <i>Learning and Memory</i> , <b>2013</b> , 20, 75-9	2.8	14
32	Functional comparison of Egr3 transcription factor isoforms: identification of an activation domain in the N-terminal segment absent from Egr3beta, a major isoform expressed in brain. <i>Journal of Neurochemistry</i> , <b>2000</b> , 75, 1352-7	6	12
31	Narp Mediates Antidepressant-Like Effects of Electroconvulsive Seizures. <i>Neuropsychopharmacology</i> , <b>2018</b> , 43, 1088-1098	8.7	11
30	Identification, expression and characterization of rat isoforms of the serum response factor (SRF) coactivator MKL1. <i>FEBS Open Bio</i> , <b>2013</b> , 3, 387-93	2.7	11
29	High affinity binding of the Translin/Trax complex to RNA does not require the presence of Y or H elements. <i>Molecular Brain Research</i> , <b>2004</b> , 120, 123-9		11
28	Potent agonist activity of DOB at 5-HT2 receptors in guinea pig trachea. <i>European Journal of Pharmacology</i> , <b>1987</b> , 138, 115-7	5.3	11

27	Effect of naloxone on luteinizing hormone secretion in eating disorders: A pilot study. <i>International Journal of Eating Disorders</i> , <b>1986</b> , 5, 149-155	6.3	9
26	Norepinephrine stimulation of adenylate cyclase potentiates protein kinase C action: electrophysiological studies in the dentate gyrus. <i>Synapse</i> , <b>1988</b> , 2, 614-8	2.4	9
25	Rapid reversal of translational silencing: Emerging role of microRNA degradation pathways in neuronal plasticity. <i>Neurobiology of Learning and Memory</i> , <b>2016</b> , 133, 225-232	3.1	9
24	Deletion of the microRNA-degrading nuclease, translin/trax, prevents pathogenic vascular stiffness. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2019</b> , 317, H1116-H1124	5.2	8
23	Cellular localization and dendritic function of rat isoforms of the SRF coactivator MKL1 in cortical neurons. <i>NeuroReport</i> , <b>2014</b> , 25, 585-92	1.7	8
22	Prominent expression of Narp in central vestibular pathways: selective effect of labyrinth ablation. <i>European Journal of Neuroscience</i> , <b>2002</b> , 16, 1949-58	3.5	8
21	Identification of a strand-specific Egr response element binding complex enriched in rat brain. <i>Journal of Neurochemistry</i> , <b>1997</b> , 68, 2255-62	6	8
20	Multiple Pathways Mediate MicroRNA Degradation: Focus on the Translin/Trax RNase Complex. <i>Advances in Pharmacology</i> , <b>2018</b> , 82, 1-20	5.7	8
19	Masking of the Translin/Trax complex by endogenous RNA. <i>FEBS Letters</i> , <b>2001</b> , 498, 6-10	3.8	7
18	Neuronal activity-regulated pentraxin expressed in medial prefrontal cortex neurons is not necessary for extinction of heroin self-administration. <i>Behavioural Pharmacology</i> , <b>2013</b> , 24, 332-6	2.4	5
17	Nicotine and Delta(9)-tetrahydrocannabinol withdrawal induce Narp in the central nucleus of the amygdala. <i>Synapse</i> , <b>2009</b> , 63, 252-5	2.4	5
16	The inositol trisphosphate receptor: a potpourri of second-messenger regulation. <i>Cellular and Molecular Neurobiology</i> , <b>1988</b> , 8, 1-5	4.6	4
15	Genetic inactivation of the translin/trax microRNA-degrading enzyme phenocopies the robust adiposity induced by Translin (Tsn) deletion. <i>Molecular Metabolism</i> , <b>2020</b> , 40, 101013	8.8	3
14	Mediating the effects of drug abuse: the role of Narp in synaptic plasticity. <i>ILAR Journal</i> , <b>2011</b> , 52, 321-8	1.7	3
13	Autoradiographic distribution of forskolin and phorbol ester binding sites in the retina. <i>Brain Research</i> , <b>1989</b> , 497, 334-43	3.7	3
12	Selective role of the translin/trax RNase complex in hippocampal synaptic plasticity. <i>Molecular Brain</i> , <b>2020</b> , 13, 145	4.5	3
11	Deletion of translin (Tsn) induces robust adiposity and hepatic steatosis without impairing glucose tolerance. <i>International Journal of Obesity</i> , <b>2020</b> , 44, 254-266	5.5	3
10	Trax: A versatile signaling protein plays key roles in synaptic plasticity and DNA repair. <i>Neurobiology of Learning and Memory</i> , <b>2019</b> , 159, 46-51	3.1	2

9	Expression of the APC tumor suppressor protein in oligodendroglia <b>1996</b> , 17, 169		2
8	Viewing Brain Stimulation from a Plasticity Perspective <b>2015</b> , 45-56		1
7	Degradation of Premature-miR-181b by the Translin/Trax RNase Increases Vascular Smooth Muscle Cell Stiffness. <i>Hypertension</i> , <b>2021</b> , 78, 831-839	8.5	1
6	Narp knockout mice show normal reactivity to novelty but attenuated recovery from neophobia. <i>Behavioural Brain Research</i> , <b>2013</b> , 257, 178-81	3.4	0
5	Elevated body fat increases amphetamine accumulation in brain: evidence from genetic and diet-induced forms of adiposity. <i>Translational Psychiatry</i> , <b>2021</b> , 11, 427	8.6	0
4	Syx, a novel Rho A guanine exchange factor, is essential for angiogenesis in vivo. <i>FASEB Journal</i> , <b>2008</b> , 22, 34-34	0.9	
3	Phosphoinositide-Linked Glutamate Receptors: Prominent Actions in Neurons and Glia <b>1991</b> , 143-152		
2	The RNA Binding Complex Translin-Trax Mediates Pro-Excitatory Activity in Neurons. <i>FASEB Journal</i> , <b>2010</b> , 24, 794.5	0.9	
1	Deciphering the Role of microRNAs in Large-Artery Stiffness Associated With Aging: Focus on miR-181b. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 747789	4.6	