Jay M Baraban

List of Publications by Year in Descending Order

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	Degradation of Premature-miR-181b by the Translin/Trax RNase Increases Vascular Smooth Muscle Cell Stiffness. *Hypertension*, **2021**, 78, 831-839	8.5	1
97	Elevated body fat increases amphetamine accumulation in brain: evidence from genetic and diet-induced forms of adiposity. *Translational Psychiatry*, **2021**, 11, 427	8.6	0
96	Deciphering the Role of microRNAs in Large-Artery Stiffness Associated With Aging: Focus on miR-181b. *Frontiers in Physiology*, **2021**, 12, 747789	4.6	
95	Genetic inactivation of the translin/trax microRNA-degrading enzyme phenocopies the robust adiposity induced by Translin (Tsn) deletion. *Molecular Metabolism*, **2020**, 40, 101013	8.8	3
94	Selective role of the translin/trax RNase complex in hippocampal synaptic plasticity. *Molecular Brain*, **2020**, 13, 145	4.5	3
93	Deletion of translin (Tsn) induces robust adiposity and hepatic steatosis without impairing glucose tolerance. *International Journal of Obesity*, **2020**, 44, 254-266	5.5	3
92	Deletion of the microRNA-degrading nuclease, translin/trax, prevents pathogenic vascular stiffness. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 317, H1116-H1124	5.2	8
91	Trax: A versatile signaling protein plays key roles in synaptic plasticity and DNA repair. *Neurobiology of Learning and Memory*, **2019**, 159, 46-51	3.1	2
90	Narp Mediates Antidepressant-Like Effects of Electroconvulsive Seizures. *Neuropsychopharmacology*, **2018**, 43, 1088-1098	8.7	11
89	Multiple Pathways Mediate MicroRNA Degradation: Focus on the Translin/Trax RNase Complex. *Advances in Pharmacology*, **2018**, 82, 1-20	5.7	8
88	Learning induces the translin/trax RNase complex to express activin receptors for persistent memory. *ELife*, **2017**, 6,	8.9	20
87	High-Frequency Stimulation at the Subthalamic Nucleus Suppresses Excessive Self-Grooming in Autism-Like Mouse Models. *Neuropsychopharmacology*, **2016**, 41, 1813-21	8.7	26
86	Rapid reversal of translational silencing: Emerging role of microRNA degradation pathways in neuronal plasticity. *Neurobiology of Learning and Memory*, **2016**, 133, 225-232	3.1	9
85	Viewing Brain Stimulation from a Plasticity Perspective **2015**, 45-56		1
84	Rescuing dicer defects via inhibition of an anti-dicing nuclease. *Cell Reports*, **2014**, 9, 1471-81	10.6	33
83	Cellular localization and dendritic function of rat isoforms of the SRF coactivator MKL1 in cortical neurons. *NeuroReport*, **2014**, 25, 585-92	1.7	8
82	Identification, expression and characterization of rat isoforms of the serum response factor (SRF) coactivator MKL1. *FEBS Open Bio*, **2013**, 3, 387-93	2.7	11

81	Narp knockout mice show normal reactivity to novelty but attenuated recovery from neophobia. *Behavioural Brain Research*, **2013**, 257, 178-81	3.4	0
80	Behavioral effects of cocaine mediated by nitric oxide-GAPDH transcriptional signaling. *Neuron*, **2013**, 78, 623-30	13.9	23
79	PLEKHG5 deficiency leads to an intermediate form of autosomal-recessive Charcot-Marie-Tooth disease. *Human Molecular Genetics*, **2013**, 22, 4224-32	5.6	25
78	Neuronal activity-regulated pentraxin expressed in medial prefrontal cortex neurons is not necessary for extinction of heroin self-administration. *Behavioural Pharmacology*, **2013**, 24, 332-6	2.4	5
77	Role of medial prefrontal cortex Narp in the extinction of morphine conditioned place preference. *Learning and Memory*, **2013**, 20, 75-9	2.8	14
76	VEGF and Angiopoietin-1 exert opposing effects on cell junctions by regulating the Rho GEF Syx. *Journal of Cell Biology*, **2012**, 199, 1103-15	7.3	79
75	Dendritic trafficking of brain-derived neurotrophic factor mRNA: regulation by translin-dependent and -independent mechanisms. *Journal of Neurochemistry*, **2011**, 116, 1112-21	6	34
74	Mediating the effects of drug abuse: the role of Narp in synaptic plasticity. *ILAR Journal*, **2011**, 52, 321-8	1.7	3
73	Disrupted-in-Schizophrenia 1 (DISC1) regulates spines of the glutamate synapse via Rac1. *Nature Neuroscience*, **2010**, 13, 327-32	25.5	323
72	Localized disruption of Narp in medial prefrontal cortex blocks reinforcer devaluation performance. *Learning and Memory*, **2010**, 17, 620-6	2.8	17
71	The RNA Binding Complex Translin-Trax Mediates Pro-Excitatory Activity in Neurons. *FASEB Journal* , **2010**, 24, 794.5	0.9	
70	Narp deletion blocks extinction of morphine place preference conditioning. *Neuropsychopharmacology*, **2009**, 34, 857-66	8.7	19
69	Nicotine and Delta(9)-tetrahydrocannabinol withdrawal induce Narp in the central nucleus of the amygdala. *Synapse*, **2009**, 63, 252-5	2.4	5
68	The neuronal RhoA GEF, Tech, interacts with the synaptic multi-PDZ-domain-containing protein, MUPP1. *Journal of Neurochemistry*, **2008**, 106, 1287-97	6	28
67	The Translin/Trax RNA binding complex: clues to function in the nervous system. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2008**, 1779, 479-85	6	38
66	Syx, a RhoA guanine exchange factor, is essential for angiogenesis in Vivo. *Circulation Research*, **2008**, 103, 710-6	15.7	48
65	Narp regulates long-term aversive effects of morphine withdrawal. *Behavioral Neuroscience*, **2008**, 122, 760-8	2.1	15
64	Syx, a novel Rho A guanine exchange factor, is essential for angiogenesis in vivo. *FASEB Journal*, **2008**, 22, 34-34	0.9	

63	A selective role for neuronal activity regulated pentraxin in the processing of sensory-specific incentive value. *Journal of Neuroscience*, **2007**, 27, 13430-5	6.6	31
62	Developmental expression of the SRF co-activator MAL in brain: role in regulating dendritic morphology. *Journal of Neurochemistry*, **2006**, 98, 1778-88	6	30
61	Tech: a RhoA GEF selectively expressed in hippocampal and cortical neurons. *Journal of Neurochemistry*, **2005**, 92, 850-8	6	32
60	Nuclear translocation of the SRF co-activator MAL in cortical neurons: role of RhoA signalling. *Journal of Neurochemistry*, **2005**, 94, 169-80	6	32
59	High affinity binding of the Translin/Trax complex to RNA does not require the presence of Y or H elements. *Molecular Brain Research*, **2004**, 120, 123-9		11
58	ERK and p38 inhibit the expression of 4E-BP1 repressor of translation through induction of Egr-1. *Journal of Biological Chemistry*, **2003**, 278, 18859-67	5.4	46
57	Opiate withdrawal induces Narp in the extended amygdala. *Neuropsychopharmacology*, **2003**, 28, 1606-18	7	23
56	A dominant negative Egr inhibitor blocks nerve growth factor-induced neurite outgrowth by suppressing c-Jun activation: role of an Egr/c-Jun complex. *Journal of Neuroscience*, **2002**, 22, 3845-54	6.6	58
55	Prominent Narp expression in projection pathways and terminal fields. *Journal of Neurochemistry*, **2002**, 82, 935-44	6	37
54	Selective expression of Narp, a secreted neuronal pentraxin, in orexin neurons. *Journal of Neurochemistry*, **2002**, 82, 1561-5	6	79
53	Trax is a component of the Translin-containing RNA binding complex. *Journal of Neurochemistry*, **2002**, 83, 202-10	6	23
52	Prominent expression of Narp in central vestibular pathways: selective effect of labyrinth ablation. *European Journal of Neuroscience*, **2002**, 16, 1949-58	3.5	8
51	Masking of the Translin/Trax complex by endogenous RNA. *FEBS Letters*, **2001**, 498, 6-10	3.8	7
50	Blockade of NGF-induced neurite outgrowth by a dominant-negative inhibitor of the egr family of transcription regulatory factors. *Journal of Neuroscience*, **2001**, 21, 45-52	6.6	42
49	A dominant negative inhibitor of the Egr family of transcription regulatory factors suppresses cerebellar granule cell apoptosis by blocking c-Jun activation. *Journal of Neuroscience*, **2001**, 21, 5893-901	6.6	47
48	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. *Journal of Neurochemistry*, **2000**, 75, 1352-7	6	12
47	Somatodendritic localization of Translin, a component of the Translin/Trax RNA binding complex. *Journal of Neurochemistry*, **2000**, 75, 1754-62	6	49
46	The EGR family of transcription-regulatory factors: progress at the interface of molecular and systems neuroscience. *Trends in Neurosciences*, **1999**, 22, 167-73	13.3	366

45	Major Egr3 isoforms are generated via alternate translation start sites and differ in their abilities to activate transcription. *Molecular and Cellular Biology*, **1999**, 19, 4711-8	4.8	39
44	Inhibition versus induction of apoptosis by proteasome inhibitors depends on concentration. *Cell Death and Differentiation*, **1998**, 5, 577-83	12.7	73
43	Chronic ethanol administration decreases phosphorylation of cyclic AMP response element-binding protein in granule cells of rat cerebellum. *Journal of Neurochemistry*, **1998**, 70, 224-32	6	46
42	Sequential expression of Egr-1 and Egr-3 in hippocampal granule cells following electroconvulsive stimulation. *Journal of Neurochemistry*, **1998**, 70, 1241-8	6	43
41	Identification of translin and trax as components of the GS1 strand-specific DNA binding complex enriched in brain. *Journal of Neurochemistry*, **1998**, 71, 471-7	6	24
40	Elevated extracellular calcium can prevent apoptosis via the calcium-sensing receptor. *Biochemical and Biophysical Research Communications*, **1998**, 249, 325-31	3.4	85
39	Identification of a strand-specific Egr response element binding complex enriched in rat brain. *Journal of Neurochemistry*, **1997**, 68, 2255-62	6	8
38	Serum deprivation inhibits glutathione depletion-induced death in embryonic cortical neurons: evidence against oxidative stress as a final common mediator of neuronal apoptosis. *Neurochemistry International*, **1996**, 29, 153-7	4.4	21
37	Expression of the APC tumor suppressor protein in oligodendroglia. *Glia*, **1996**, 17, 169-74	9	213
36	Expression of the APC tumor suppressor protein in oligodendroglia **1996**, 17, 169		2
35	Activation of arc, a putative "effector" immediate early gene, by cocaine in rat brain. *Journal of Neurochemistry*, **1995**, 64, 2377-80	6	115
34	Apoptotic death in an in vitro model of neuronal oxidative stress. *Clinical and Experimental Pharmacology and Physiology*, **1995**, 22, 309-10	3	48
33	Mapping miniature synaptic currents to single synapses using calcium imaging reveals heterogeneity in postsynaptic output. *Neuron*, **1995**, 15, 159-68	13.9	36
32	Oxidative stress induces apoptosis in embryonic cortical neurons. *Journal of Neurochemistry*, **1994**, 62, 376-9	6	479
31	Genetic and activity-dependent regulation of zif268 expression: association with spatial learning. *Hippocampus*, **1994**, 4, 559-68	3.5	44
30	Identification of p42 mitogen-activated protein kinase as a tyrosine kinase substrate activated by maximal electroconvulsive shock in hippocampus. *Journal of Neurochemistry*, **1993**, 60, 330-6	6	74
29	Rapid increases in peptide processing enzyme expression in hippocampal neurons. *Journal of Neurochemistry*, **1993**, 61, 1315-22	6	26
28	D1 dopamine receptor activation of multiple transcription factor genes in rat striatum. *Journal of Neurochemistry*, **1992**, 58, 1420-6	6	185

27	High basal expression of zif268 in cortex is dependent on intact noradrenergic system. *European Journal of Pharmacology*, **1992**, 227, 447-8		25
26	Electroconvulsive treatment induces a rapid and transient increase in tyrosine phosphorylation of a 40-kilodalton protein associated with microtubule-associated protein 2 kinase activity. *Journal of Neurochemistry*, **1991**, 56, 147-52	6	64
25	L-type voltage-sensitive calcium channels mediate synaptic activation of immediate early genes. *Neuron*, **1991**, 7, 625-35	13.9	387
24	Phosphoinositide-Linked Glutamate Receptors: Prominent Actions in Neurons and Glia **1991**, 143-152		
23	Rapid rise in transcription factor mRNAs in rat brain after electroshock-induced seizures. *Journal of Neurochemistry*, **1990**, 55, 1920-7	6	187
22	Regulation of immediate early genes in brain: role of NMDA receptor activation. *Progress in Brain Research*, **1990**, 86, 277-85	2.9	28
21	Glutamate toxicity in immature cortical neurons precedes development of glutamate receptor currents. *Developmental Brain Research*, **1990**, 57, 146-50		86
20	Pharmacological characterization of phosphoinositide-linked glutamate receptor excitation of hippocampal neurons. *European Journal of Pharmacology*, **1990**, 186, 357-61	5.3	56
19	Hallucinogenic drug interactions at human brain 5-HT2 receptors: implications for treating LSD-induced hallucinogenesis. *Psychopharmacology*, **1989**, 98, 495-9	4.7	107
18	Rapid increase of an immediate early gene messenger RNA in hippocampal neurons by synaptic NMDA receptor activation. *Nature*, **1989**, 340, 474-6	50.4	942
17	Excitation of hippocampal neurons by stimulation of glutamate Qp receptors. *European Journal of Pharmacology*, **1989**, 173, 235-7	5.3	94
16	Autoradiographic distribution of forskolin and phorbol ester binding sites in the retina. *Brain Research*, **1989**, 497, 334-43	3.7	3
15	Intrahippocampal injection of pertussis toxin blocks adenosine suppression of synaptic responses. *Brain Research*, **1989**, 494, 359-64	3.7	35
14	The inositol trisphosphate receptor: a potpourri of second-messenger regulation. *Cellular and Molecular Neurobiology*, **1988**, 8, 1-5	4.6	4
13	Norepinephrine stimulation of adenylate cyclase potentiates protein kinase C action: electrophysiological studies in the dentate gyrus. *Synapse*, **1988**, 2, 614-8	2.4	9
12	Neuronal muscarinic responses: role of protein kinase C. *FASEB Journal*, **1988**, 2, 2575-83	0.9	47
11	Potent agonist activity of DOB at 5-HT2 receptors in guinea pig trachea. *European Journal of Pharmacology*, **1987**, 138, 115-7	5.3	11
10	Phorbol esters: probes of protein kinase C function in the brain. *Trends in Neurosciences*, **1987**, 10, 57-58	13.3	16

9	Demonstration of inositol 1,3,4,5-tetrakisphosphate receptor binding. *Biochemical and Biophysical Research Communications*, **1987**, 148, 1283-9	3.4	80
8	Beyond receptors: multiple second-messenger systems in brain. *Annals of Neurology*, **1987**, 21, 217-29	9.4	103
7	Inositol trisphosphate receptor localization in brain: variable stoichiometry with protein kinase C. *Nature*, **1987**, 325, 159-61	50.4	240
6	Effect of naloxone on luteinizing hormone secretion in eating disorders: A pilot study. *International Journal of Eating Disorders*, **1986**, 5, 149-155	6.3	9
5	Protein kinase C regulates smooth muscle tension in guinea-pig trachea and ileum. *European Journal of Pharmacology*, **1986**, 122, 19-27	5.3	59
4	Prazosin selectively antagonizes neuronal responses mediated by alpha1-adrenoceptors in brain. *Naunyn-Schmiedebergs Archives of Pharmacology*, **1981**, 317, 273-5	3.4	106
3	Suppression of serotonergic neuronal firing by alpha-adrenoceptor antagonists: evidence against GABA mediation. *European Journal of Pharmacology*, **1980**, 66, 287-94	5.3	47
2	Noradrenergic agonists and antagonists: effects on conditioned fear as measured by the potentiated startle paradigm. *Psychopharmacology*, **1979**, 65, 111-8	4.7	240
1	Reserpine suppression of dorsal raphe neuronal firing: mediation by adrenergic system. *European Journal of Pharmacology*, **1978**, 52, 27-36	5.3	68