Alvin V Terry

List of Publications by Citations

177 papers	7,288 citations	48 h-index	77 g-index
184 ext. papers	7,956 ext. citations	4.4 avg, IF	6.04 L-index

#	Paper	IF	Citations
177	The cholinergic hypothesis of age and Alzheimer's disease-related cognitive deficits: recent challenges and their implications for novel drug development. *Journal of Pharmacology and Experimental Therapeutics*, **2003**, 306, 821-7	4.7	792
176	Experimental validation of miRNA targets. *Methods*, **2008**, 44, 47-54	4.6	267
175	Neuregulin 1 regulates pyramidal neuron activity via ErbB4 in parvalbumin-positive interneurons. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 1211-6	11.5	226
174	Neurotrophins and schizophrenia. *Schizophrenia Research*, **2007**, 94, 1-11	3.6	134
173	Human chromosome 21-derived miRNAs are overexpressed in down syndrome brains and hearts. *Biochemical and Biophysical Research Communications*, **2008**, 370, 473-7	3.4	131
172	Neutral Sphingomyelinase-2 Deficiency Ameliorates Alzheimer's Disease Pathology and Improves Cognition in the 5XFAD Mouse. *Journal of Neuroscience*, **2016**, 36, 8653-67	6.6	127
171	Desensitization of nicotinic acetylcholine receptors as a strategy for drug development. *Journal of Pharmacology and Experimental Therapeutics*, **2009**, 328, 364-70	4.7	123
170	Long-term antipsychotic treatments and crossover studies in rats: differential effects of typical and atypical agents on the expression of antioxidant enzymes and membrane lipid peroxidation in rat brain. *Journal of Psychiatric Research*, **2007**, 41, 372-86	5.2	117
169	RG3487, a novel nicotinic 7 receptor partial agonist, improves cognition and sensorimotor gating in rodents. *Journal of Pharmacology and Experimental Therapeutics*, **2011**, 336, 242-53	4.7	106
168	Differential effects of long-term treatment with typical and atypical antipsychotics on NGF and BDNF levels in rat striatum and hippocampus. *Schizophrenia Research*, **2006**, 82, 95-106	3.6	106
167	Lecozotan (SRA-333): a selective serotonin 1A receptor antagonist that enhances the stimulated release of glutamate and acetylcholine in the hippocampus and possesses cognitive-enhancing properties. *Journal of Pharmacology and Experimental Therapeutics*, **2005**, 314, 1274-89	4.7	105
166	An inverse relationship between cortisol and BDNF levels in schizophrenia: data from human postmortem and animal studies. *Neurobiology of Disease*, **2010**, 39, 327-33	7.5	103
165	Neurotoxicity in acute and repeated organophosphate exposure. *Toxicology*, **2018**, 408, 101-112	4.4	98
164	Repeated nicotine exposure in rats: effects on memory function, cholinergic markers and nerve growth factor. *Neuroscience*, **2005**, 130, 997-1012	3.9	90
163	Improvement in performance of a delayed matching-to-sample task by monkeys following ABT-418: a novel cholinergic channel activator for memory enhancement. *Psychopharmacology*, **1995**, 120, 256-66	4.7	90
162	Repeated exposures to subthreshold doses of chlorpyrifos in rats: hippocampal damage, impaired axonal transport, and deficits in spatial learning. *Journal of Pharmacology and Experimental Therapeutics*, **2003**, 305, 375-84	4.7	88
161	Cognitive dysfunction in neuropsychiatric disorders: selected serotonin receptor subtypes as therapeutic targets. *Behavioural Brain Research*, **2008**, 195, 30-8	3.4	87

160	Chromosome 21-derived microRNAs provide an etiological basis for aberrant protein expression in human Down syndrome brains. *Journal of Biological Chemistry*, **2010**, 285, 1529-43	5.4	86
159	Central nicotinic receptor agonists ABT-418, ABT-089, and (-)-nicotine reduce distractibility in adult monkeys. *Psychopharmacology*, **1998**, 136, 50-8	4.7	81
158	Positive allosteric modulator of α7 nicotinic-acetylcholine receptors, PNU-120596 augments the effects of donepezil on learning and memory in aged rodents and non-human primates. *Neuropharmacology*, **2013**, 67, 201-12	5.5	78
157	Chronic, intermittent exposure to chlorpyrifos in rats: protracted effects on axonal transport, neurotrophin receptors, cholinergic markers, and information processing. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 322, 1117-28	4.7	76
156	Differential effects of haloperidol, risperidone, and clozapine exposure on cholinergic markers and spatial learning performance in rats. *Neuropsychopharmacology*, **2003**, 28, 300-9	8.7	75
155	Exposure to variable prenatal stress in rats: effects on anxiety-related behaviors, innate and contextual fear, and fear extinction. *Behavioural Brain Research*, **2013**, 238, 279-88	3.4	66
154	A reversible model of the cognitive impairment associated with schizophrenia in monkeys: potential therapeutic effects of two nicotinic acetylcholine receptor agonists. *Biochemical Pharmacology*, **2009**, 78, 852-62	6	66
153	Simultaneous determination of five antipsychotic drugs in rat plasma by high performance liquid chromatography with ultraviolet detection. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 856, 20-8	3.2	66
152	Microtubule-associated targets in chlorpyrifos oxon hippocampal neurotoxicity. *Neuroscience*, **2007** , 146, 330-9	3.9	66
151	Enhanced delayed matching performance in younger and older macaques administered the 5-HT4 receptor agonist, RS 17017. *Psychopharmacology*, **1998**, 135, 407-15	4.7	65
150	Comparison of galantamine and donepezil for effects on nerve growth factor, cholinergic markers, and memory performance in aged rats. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 316, 679-94	4.7	65
149	Repeated exposures to low-level chlorpyrifos results in impairments in sustained attention and increased impulsivity in rats. *Neurotoxicology and Teratology*, **2010**, 32, 415-24	3.9	63
148	Sensitive liquid chromatography/tandem mass spectrometry method for the simultaneous determination of olanzapine, risperidone, 9-hydroxyrisperidone, clozapine, haloperidol and ziprasidone in rat brain tissue. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 858, 276-81	3.2	63
147	Cotinine, a neuroactive metabolite of nicotine: potential for treating disorders of impaired cognition. *CNS Neuroscience & Therapeutics*, **2005**, 11, 229-52		62
146	Nitric oxide synthase inhibition impairs spatial navigation learning and induces conditioned taste aversion. *Pharmacology Biochemistry and Behavior*, **1997**, 57, 347-52	3.9	61
145	Mass spectrometry identifies covalent binding of soman, sarin, chlorpyrifos oxon, diisopropyl fluorophosphate, and FP-biotin to tyrosines on tubulin: a potential mechanism of long term toxicity by organophosphorus agents. *Chemico-Biological Interactions*, **2008**, 175, 180-6	5	61
144	Age-dependent alterations in nerve growth factor (NGF)-related proteins, sortilin, and learning and memory in rats. *Physiology and Behavior*, **2011**, 102, 149-57	3.5	60
143	Time-dependent cognitive deficits associated with first and second generation antipsychotics: cholinergic dysregulation as a potential mechanism. *Journal of Pharmacology and Experimental Therapeutics*, **2007**, 320, 961-8	4.7	60

142	Alzheimer's disease and age-related memory decline (preclinical). *Pharmacology Biochemistry and Behavior*, **2011**, 99, 190-210	3.9	59
141	Effects of (+/-)-4-[[2-(1-methyl-2-pyrrolidinyl)ethyl]thio]phenol hydrochloride (SIB-1553A), a selective ligand for nicotinic acetylcholine receptors, in tests of visual attention and distractibility in rats and monkeys. *Journal of Pharmacology and Experimental Therapeutics*, **2002**, 301, 284-92	4.7	58
140	Effects of chronic, low-level organophosphate exposure on delayed recall, discrimination, and spatial learning in monkeys and rats. *Neurotoxicology and Teratology*, **1998**, 20, 115-22	3.9	57
139	Differential effects of chronic haloperidol and olanzapine exposure on brain cholinergic markers and spatial learning in rats. *Psychopharmacology*, **2002**, 164, 360-8	4.7	55
138	Oral haloperidol or risperidone treatment in rats: temporal effects on nerve growth factor receptors, cholinergic neurons, and memory performance. *Neuroscience*, **2007**, 146, 1316-32	3.9	54
137	Effects of chlorpyrifos and chlorpyrifos-oxon on the dynamics and movement of mitochondria in rat cortical neurons. *Journal of Pharmacology and Experimental Therapeutics*, **2011**, 339, 341-9	4.7	53
136	Chlorpyrifos, chlorpyrifos-oxon, and diisopropylfluorophosphate inhibit kinesin-dependent microtubule motility. *Toxicology and Applied Pharmacology*, **2007**, 218, 20-9	4.6	53
135	Cognitive impairment in spontaneously hypertensive rats: role of central nicotinic receptors. Part II. *Brain Research*, **1997**, 771, 104-14	3.7	52
134	Galantamine and donepezil attenuate pharmacologically induced deficits in prepulse inhibition in rats. *Neuropharmacology*, **2007**, 52, 542-51	5.5	52
133	Scopolamine reversal of nicotine enhanced delayed matching-to-sample performance in monkeys. *Pharmacology Biochemistry and Behavior*, **1993**, 45, 925-9	3.9	52
132	Deficits in spatial learning and nicotinic-acetylcholine receptors in older, spontaneously hypertensive rats. *Neuroscience*, **2000**, 101, 357-68	3.9	51
131	Chronic, low-level exposure to diisopropylfluorophosphate causes protracted impairment of spatial navigation learning. *Psychopharmacology*, **1997**, 129, 183-91	4.7	49
130	Profile of nicotinic acetylcholine receptor agonists ABT-594 and A-582941, with differential subtype selectivity, on delayed matching accuracy by young monkeys. *Biochemical Pharmacology*, **2007**, 74, 1202-11	6	48
129	Modulation of nerve growth factor and choline acetyltransferase expression in rat hippocampus after chronic exposure to haloperidol, risperidone, and olanzapine. *Psychopharmacology*, **2004**, 172, 365-74	4.7	48
128	Reversal of scopolamine-induced deficits in navigational memory performance by the seed oil of Celastrus paniculatus. *Pharmacology Biochemistry and Behavior*, **1997**, 57, 793-9	3.9	46
127	The scopolamine-reversal paradigm in rats and monkeys: the importance of computer-assisted operant-conditioning memory tasks for screening drug candidates. *Psychopharmacology*, **2008**, 199, 481-94	4.7	46
126	The nicotine metabolite, cotinine, attenuates glutamate (NMDA) antagonist-related effects on the performance of the five choice serial reaction time task (5C-SRTT) in rats. *Biochemical Pharmacology* , **2012**, 83, 941-51	6	44
125	Liquid chromatography/tandem mass spectrometry method for the simultaneous determination of olanzapine, risperidone, 9-hydroxyrisperidone, clozapine, haloperidol and ziprasidone in rat plasma. *Rapid Communications in Mass Spectrometry*, **2007**, 21, 920-8	2.2	44

124	The potential role of cotinine in the cognitive and neuroprotective actions of nicotine. *Life Sciences*, **2003**, 72, 2931-42	6.8	44
123	Chronic exposure to typical or atypical antipsychotics in rodents: temporal effects on central alpha7 nicotinic acetylcholine receptors. *Neuroscience*, **2005**, 136, 519-29	3.9	43
122	Selective serotonin 5-HT2A receptor antagonist EMD 281014 improves delayed matching performance in young and aged rhesus monkeys. *Psychopharmacology*, **2005**, 179, 725-32	4.7	43
121	Cysteamine attenuates the decreases in TrkB protein levels and the anxiety/depression-like behaviors in mice induced by corticosterone treatment. *PLoS ONE*, **2011**, 6, e26153	3.7	43
120	Chronic treatment with first or second generation antipsychotics in rodents: effects on high affinity nicotinic and muscarinic acetylcholine receptors in the brain. *Neuroscience*, **2006**, 140, 1277-87	3.9	42
119	Repeated exposure to chlorpyrifos leads to prolonged impairments of axonal transport in the living rodent brain. *NeuroToxicology*, **2015**, 47, 17-26	4.4	41
118	Neurodevelopmental animal models of schizophrenia: role in novel drug discovery and development. *Clinical Schizophrenia and Related Psychoses*, **2010**, 4, 124-37	1.6	41
117	Spontaneously hypertensive rats: further evaluation of age-related memory performance and cholinergic marker expression. *Journal of Psychiatry and Neuroscience*, **2003**, 28, 197-209	4.5	40
116	Evaluation of nicotine and cotinine analogs as potential neuroprotective agents for Alzheimer's disease. *Bioorganic and Medicinal Chemistry Letters*, **2014**, 24, 1472-8	2.9	39
115	Time-dependent effects of haloperidol and ziprasidone on nerve growth factor, cholinergic neurons, and spatial learning in rats. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 318, 709-24	4.7	38
114	Dose-specific improvements in memory-related task performance by rats and aged monkeys administered the nicotinic-cholinergic antagonist mecamylamine. *Drug Development Research*, **1999** , 47, 127-136	5.1	38
113	Nicotine stimulation of nerve growth factor receptor expression. *Life Sciences*, **1994**, 55, PL91-8	6.8	38
112	Effects of concomitant cholinergic and adrenergic stimulation on learning and memory performance by young and aged monkeys. *Cerebral Cortex*, **1993**, 3, 304-12	5.1	37
111	Lobeline and structurally simplified analogs exhibit differential agonist activity and sensitivity to antagonist blockade when compared to nicotine. *Neuropharmacology*, **1998**, 37, 93-102	5.5	36
110	Erythropoietin prevents haloperidol treatment-induced neuronal apoptosis through regulation of BDNF. *Neuropsychopharmacology*, **2008**, 33, 1942-51	8.7	36
109	Role of the central cholinergic system in the therapeutics of schizophrenia. *Current Neuropharmacology*, **2008**, 6, 286-92	7.6	36
108	Improvement in accuracy of delayed recall in aged and non-aged, mature monkeys after intramuscular or transdermal administration of the CNS nicotinic receptor agonist ABT-418. *Psychopharmacology*, **1997**, 130, 276-84	4.7	35
107	ELISA methods to measure cholinergic markers and nerve growth factor receptors in cortex, hippocampus, prefrontal cortex, and basal forebrain from rat brain. *Journal of Neuroscience Methods*, **2006**, 150, 159-73	3	35

106	Nicotine increases the expression of high affinity nerve growth factor receptors in both in vitro and in vivo. *Life Sciences*, **2002**, 70, 1543-54	6.8	35
105	Tropisetron sensitizes α7 containing nicotinic receptors to low levels of acetylcholine in vitro and improves memory-related task performance in young and aged animals. *Neuropharmacology*, **2017**, 117, 422-433	5.5	34
104	Bioanalytical methods for the determination of antipsychotic drugs. *Biomedical Chromatography*, **2008**, 22, 671-87	1.7	34
103	Protracted effects of chronic oral haloperidol and risperidone on nerve growth factor, cholinergic neurons, and spatial reference learning in rats. *Neuroscience*, **2007**, 150, 413-24	3.9	34
102	The effects of IDRA 21, a positive modulator of the AMPA receptor, on delayed matching performance by young and aged rhesus monkeys. *Neuropharmacology*, **2004**, 46, 10-22	5.5	34
101	Nicotinic ligands as multifunctional agents for the treatment of neuropsychiatric disorders. *Biochemical Pharmacology*, **2015**, 97, 388-398	6	33
100	Effects of the nicotinic α7 receptor partial agonist GTS-21 on NMDA-glutamatergic receptor related deficits in sensorimotor gating and recognition memory in rats. *Psychopharmacology*, **2014**, 231, 3695-706	4.7	33
99	Chronic impairments in spatial learning and memory in rats previously exposed to chlorpyrfos or diisopropylfluorophosphate. *Neurotoxicology and Teratology*, **2012**, 34, 1-8	3.9	33
98	Differential effects of typical and atypical antipsychotics on nerve growth factor and choline acetyltransferase expression in the cortex and nucleus basalis of rats. *Journal of Psychiatric Research*, **2004**, 38, 521-9	5.2	33
97	Relative levels of cytoprotection produced by analogs of choline and the role of alpha7-nicotinic acetylcholine receptors. *Synapse*, **2003**, 47, 262-9	2.4	33
96	The effects of JWB1-84-1 on memory-related task performance by amyloid Abeta transgenic mice and by young and aged monkeys. *Neuropharmacology*, **2007**, 53, 588-600	5.5	32
95	Potential cognitive actions of (n-propargly-(3r)-aminoindan-5-yl)-ethyl, methyl carbamate (tv3326), a novel neuroprotective agent, as assessed in old rhesus monkeys in their performance of versions of a delayed matching task. *Neuroscience*, **2003**, 119, 669-78	3.9	31
94	Sensitive liquid chromatography/tandem mass spectrometry method for the determination of the lipophilic antipsychotic drug chlorpromazine in rat plasma and brain tissue. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 854, 68-76	3.2	29
93	Plasma membrane ordering agent pluronic F-68 (PF-68) reduces neurotransmitter uptake and release and produces learning and memory deficits in rats. *Learning and Memory*, **1999**, 6, 634-49	2.8	29
92	Variable prenatal stress results in impairments of sustained attention and inhibitory response control in a 5-choice serial reaction time task in rats. *Neuroscience*, **2012**, 218, 126-37	3.9	28
91	Behavioral defects in chaperone-deficient Alzheimer's disease model mice. *PLoS ONE*, **2011**, 6, e16550	3.7	28
90	R-(+) and S-(-) isomers of cotinine augment cholinergic responses in vitro and in vivo. *Journal of Pharmacology and Experimental Therapeutics*, **2015**, 352, 405-18	4.7	27
89	Intermittent Stimulation of the Nucleus Basalis of Meynert Improves Working Memory in Adult Monkeys. *Current Biology*, **2017**, 27, 2640-2646.e4	6.3	27

88	Effects of stimulation or blockade of central nicotinic-cholinergic receptors on performance of a novel version of the rat stimulus discrimination task. *Psychopharmacology*, **1996**, 123, 172-81	4.7	27
87	Chlorpyrifos and chlorpyrifos oxon impair the transport of membrane bound organelles in rat cortical axons. *NeuroToxicology*, **2017**, 62, 111-123	4.4	26
86	Negative effects of chronic oral chlorpromazine and olanzapine treatment on the performance of tasks designed to assess spatial learning and working memory in rats. *Neuroscience*, **2008**, 156, 1005-16	3.9	26
85	Determination of chlorpyrifos and its metabolites in rat brain tissue using coupled-column liquid chromatography/electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2006**, 20, 2689-95	2.2	26
84	Protractive effects of chronic treatment with an acutely sub-toxic regimen of diisopropylflurophosphate on the expression of cholinergic receptor densities in rats. *Brain Research*, **2000**, 882, 9-18	3.7	26
83	Spinal NMDA receptor--nitric oxide mediation of the expression of morphine withdrawal symptoms in the rat. *Brain Research*, **1995**, 679, 189-99	3.7	26
82	Disconnection between activation and desensitization of autonomic nicotinic receptors by nicotine and cotinine. *Neuroscience Letters*, **2007**, 413, 68-71	3.3	25
81	Diisopropylfluorophosphate Impairs the Transport of Membrane-Bound Organelles in Rat Cortical Axons. *Journal of Pharmacology and Experimental Therapeutics*, **2016**, 356, 645-55	4.7	24
80	Quantitation of cotinine and its metabolites in rat plasma and brain tissue by hydrophilic interaction chromatography tandem mass spectrometry (HILIC-MS/MS). *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2012**, 907, 117-25	3.2	24
79	Variable maternal stress in rats alters locomotor activity, social behavior, and recognition memory in the adult offspring. *Pharmacology Biochemistry and Behavior*, **2013**, 104, 47-61	3.9	24
78	Repeated, intermittent exposures to diisopropylfluorophosphate in rats: protracted effects on cholinergic markers, nerve growth factor-related proteins, and cognitive function. *Neuroscience*, **2011**, 176, 237-53	3.9	24
77	Determination of the lipophilic antipsychotic drug ziprasidone in rat plasma and brain tissue using liquid chromatography-tandem mass spectrometry. *Biomedical Chromatography*, **2008**, 22, 770-8	1.7	24
76	7 nicotinic acetylcholine receptors as therapeutic targets in schizophrenia: Update on animal and clinical studies and strategies for the future. *Neuropharmacology*, **2020**, 170, 108053	5.5	23
75	Nicotinic Acetylcholine Receptor Ligands, Cognitive Function, and Preclinical Approaches to Drug Discovery. *Nicotine and Tobacco Research*, **2019**, 21, 383-394	4.9	23
74	Memory-related task performance by aged rhesus monkeys administered the muscarinic M(1)-preferring agonist, talsaclidine. *Psychopharmacology*, **2002**, 162, 292-300	4.7	23
73	Sex dimorphisms in the cognitive-enhancing action of the Alzheimer's drug donepezil in aged Rhesus monkeys. *Neuropharmacology*, **2003**, 44, 381-9	5.5	23
72	The acute effects of dimebolin, a potential Alzheimer's disease treatment, on working memory in rhesus monkeys. *British Journal of Pharmacology*, **2011**, 164, 970-8	8.6	22
71	A computer-assisted cognitive test battery for aged monkeys. *Journal of Molecular Neuroscience*, **2002**, 19, 179-85	3.3	22

70	Determination of aripiprazole in rat plasma and brain using ultra-performance liquid chromatography/electrospray ionization tandem mass spectrometry. *Biomedical Chromatography*, **2012**, 26, 1325-32	1.7	21
69	Cysteamine treatment ameliorates alterations in GAD67 expression and spatial memory in heterozygous reeler mice. *International Journal of Neuropsychopharmacology*, **2012**, 15, 1073-86	5.8	21
68	Up-regulation of calcyon results in locomotor hyperactivity and reduced anxiety in mice. *Behavioural Brain Research*, **2008**, 189, 244-9	3.4	21
67	Enhanced attention in rhesus monkeys as a common factor for the cognitive effects of drugs with abuse potential. *Psychopharmacology*, **2003**, 169, 150-60	4.7	21
66	GGA3 Interacts with a G Protein-Coupled Receptor and Modulates Its Cell Surface Export. *Molecular and Cellular Biology*, **2016**, 36, 1152-63	4.8	20
65	Isoarecolone-induced enhancement of delayed matching to sample performance in monkeys: role of nicotinic receptors. *NeuroReport*, **1995**, 6, 1223-7	1.7	19
64	Comparison of Time-of-Flight Mass Spectrometry to Triple Quadrupole Tandem Mass Spectrometry for Quantitative Bioanalysis: Application to Antipsychotics. *Journal of Liquid Chromatography and Related Technologies*, **2008**, 31, 2737-2751	1.3	18
63	Repeated exposures to diisopropylfluorophosphate result in structural disruptions of myelinated axons and persistent impairments of axonal transport in the brains of rats. *Toxicology*, **2018**, 406-407, 92-103	4.4	17
62	Repeated exposures to diisopropylfluorophosphate result in impairments of sustained attention and persistent alterations of inhibitory response control in rats. *Neurotoxicology and Teratology*, **2014**, 44, 18-29	3.9	17
61	Donepezil-induced improvement in delayed matching accuracy by young and old rhesus monkeys. *Journal of Molecular Neuroscience*, **2004**, 24, 85-91	3.3	17
60	Ranitidine analog, JWS-USC-75IX, enhances memory-related task performance in rats. *Drug Development Research*, **1999**, 47, 97-106	5.1	17
59	Regulation of β2Adrenergic Receptor Cell Surface Transport by GGA1 and GGA2. *Scientific Reports*, **2016**, 6, 37921	4.9	16
58	Effects of the nicotinic agonist varenicline on the performance of tasks of cognition in aged and middle-aged rhesus and pigtail monkeys. *Psychopharmacology*, **2016**, 233, 761-71	4.7	16
57	Differential long-term effects of haloperidol and risperidone on the acquisition and performance of tasks of spatial working and short-term memory and sustained attention in rats. *Journal of Pharmacology and Experimental Therapeutics*, **2013**, 347, 547-56	4.7	16
56	Dahl salt-sensitive and salt-resistant rats: examination of learning and memory performance, blood pressure, and the expression of central nicotinic acetylcholine receptors. *Neuroscience*, **2001**, 103, 351-63	3.9	16
55	Spinal muscarinic cholinergic and nitric oxide systems in cardiovascular regulation. *European Journal of Pharmacology*, **1996**, 313, 211-20	5.3	15
54	The 5-HT3 receptor antagonist, RS-56812, enhances delayed matching performance in monkeys. *NeuroReport*, **1996**, 8, 49-54	1.7	15
53	Velnacrine maleate improves delayed matching performance by aged monkeys. *Psychopharmacology*, **1995**, 119, 391-8	4.7	15

52	Tropisetron enhances recognition memory in rats chronically treated with risperidone or quetiapine. *Biochemical Pharmacology*, **2018**, 151, 180-187	6	15
51	Atomoxetine improves memory and other components of executive function in young-adult rats and aged rhesus monkeys. *Neuropharmacology*, **2019**, 155, 65-75	5.5	14
50	Neuroprotective effects and mechanism of cognitive-enhancing choline analogs JWB 1-84-1 and JAY 2-22-33 in neuronal culture and Caenorhabditis elegans. *Molecular Neurodegeneration*, **2010**, 5, 59	19	14
49	Nitric oxide synthase inhibition impairs delayed recall in mature monkeys. *Pharmacology Biochemistry and Behavior*, **1997**, 56, 81-7	3.9	14
48	An aqueous orally active vaccine targeted against a RAGE/AB complex as a novel therapeutic for Alzheimer's disease. *NeuroMolecular Medicine*, **2012**, 14, 119-30	4.6	13
47	Inhibition of brain choline uptake by isoarecolone and lobeline derivatives: implications for potential vector-mediated brain drug delivery. *Neuroscience Letters*, **1998**, 258, 25-8	3.3	13
46	Mass Spectrometric Quantitation of Tubulin Acetylation from Pepsin-Digested Rat Brain Tissue Using a Novel Stable-Isotope Standard and Capture by Anti-Peptide Antibody (SISCAPA) Method. *Analytical Chemistry*, **2018**, 90, 2155-2163	7.8	12
45	Alpha 2A adrenergic receptor agonist, guanfacine, attenuates cocaine-related impairments of inhibitory response control and working memory in animal models. *Pharmacology Biochemistry and Behavior*, **2014**, 126, 63-72	3.9	12
44	Attention. *Handbook of Experimental Pharmacology*, **2015**, 228, 161-89	3.2	11
43	Simultaneous quantitation of quetiapine and its active metabolite norquetiapine in rat plasma and brain tissue by high performance liquid chromatography/electrospray ionization tandem mass spectrometry (LC-MS/MS). *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2015**, 1002, 71-7	3.2	11
42	Intermittent stimulation in the nucleus basalis of meynert improves sustained attention in rhesus monkeys. *Neuropharmacology*, **2018**, 137, 202-210	5.5	11
41	Cholinergic channel activator, ABT-418, enhances delayed-response accuracy in rats. *Drug Development Research*, **1997**, 40, 304-312	5.1	11
40	Effect of repeated nicotine exposure on high-affinity nicotinic acetylcholine receptor density in spontaneously hypertensive rats. *Neuroscience Letters*, **2005**, 382, 158-63	3.3	11
39	Protracted cognitive effects produced by clonidine in Macaca nemestrina performing a delayed matching task. *Psychopharmacology*, **2009**, 202, 477-85	4.7	10
38	Bio-generation of stable isotope-labeled internal standards for absolute and relative quantitation of phase II drug metabolites in plasma samples using LC-MS/MS. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 4053-63	4.4	9
37	The prototypical ranitidine analog JWS-USC-75-IX improves information processing and cognitive function in animal models. *Journal of Pharmacology and Experimental Therapeutics*, **2011**, 336, 751-66	4.7	9
36	A rapid microtechnique for the estimation of muscarinic and nicotinic receptor binding parameters using 96-well filtration plates. *Journal of Neuroscience Methods*, **1995**, 63, 121-25	3	9
35	Estrogen Receptor Agonist Attenuates Endoplasmic Reticulum Stress-Induced Changes in Social Behavior and Brain Connectivity in Mice. *Molecular Neurobiology*, **2018**, 55, 7606-7618	6.2	8

34	Pharmacokinetics of cotinine in rats: a potential therapeutic agent for disorders of cognitive function. *Pharmacological Reports*, **2015**, 67, 494-500	3.9	8
33	Synthesis and biological evaluation of ranitidine analogs as multiple-target-directed cognitive enhancers for the treatment of Alzheimer's disease. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 5573-5579	2.9	8
32	Time dependent decreases in central alpha7 nicotinic acetylcholine receptors associated with haloperidol and risperidone treatment in rats. *European Journal of Pharmacology*, **2007**, 571, 29-32	5.3	7
31	Novel analogs of choline as potential neuroprotective agents. *Journal of Alzheimer's Disease*, **2004**, 6, S85-92	4.3	7
30	Chronic oral treatment with risperidone impairs recognition memory and alters brain-derived neurotrophic factor and related signaling molecules in rats. *Pharmacology Biochemistry and Behavior*, **2020**, 189, 172853	3.9	6
29	Potential for intermittent stimulation of nucleus basalis of Meynert to impact treatment of alzheimer's disease. *Communicative and Integrative Biology*, **2017**, 10, e1389359	1.7	6
28	Neurobiology of nAChRs and cognition: a mini review of Dr. Jerry J. Buccafusco's contributions over a 25 year career. *Biochemical Pharmacology*, **2011**, 82, 883-90	6	6
27	Treatments for neuropathic pain differentially affect delayed matching accuracy by macaques: effects of amitriptyline and gabapentin. *Pain*, **2010**, 148, 446-453	8	6
26	Determination of diisopropylfluorophosphate in rat plasma and brain tissue by headspace solid-phase microextraction gas chromatography/mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2008**, 22, 3069-75	2.2	6
25	Determination of Chlorpyrifos and its Metabolites in Rat Blood Using Liquid Chromatography/Electrospray Ionization Tandem Mass Spectrometry. *Journal of Liquid Chromatography and Related Technologies*, **2007**, 30, 273-285	1.3	6
24	Multifunctional compounds lithium chloride and methylene Blue attenuate the negative effects of diisopropylfluorophosphate on axonal transport in rat cortical neurons. *Toxicology*, **2020**, 431, 152379	4.4	6
23	The use-dependent, nicotinic antagonist BTMPS reduces the adverse consequences of morphine self-administration in rats in an abstinence model of drug seeking. *Neuropharmacology*, **2011**, 61, 798-806	5.5	5
22	Chronic antipsychotic treatment: protracted decreases in phospho-TrkA levels in the rat hippocampus. *International Journal of Neuropsychopharmacology*, **2010**, 13, 799-805	5.8	5
21	Chromosome 21-derived microRNAs provide an etiological basis for aberrant protein expression in human down syndrome brains. *Journal of Biological Chemistry*, **2013**, 288, 4228	5.4	4
20	MHP-133, a drug with multiple CNS targets: potential for neuroprotection and enhanced cognition. *Neurochemical Research*, **2007**, 32, 1224-37	4.6	4
19	Design and Synthesis of Ranitidine Analogs as Multi-Target Directed Ligands for the Treatment of Alzheimer's Disease. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
18	Aged rhesus monkeys: Cognitive performance categorizations and preclinical drug testing. *Neuropharmacology*, **2021**, 187, 108489	5.5	4
17	Evaluation of two rodent delayed-response memory tasks: a method with retractable levers versus a method with closing doors. *Physiology and Behavior*, **2000**, 70, 233-41	3.5	3

16	Differential effects of alkaloids on memory in rodents. *Scientific Reports*, **2021**, 11, 9843	4.9	3
15	Rab43 GTPase directs postsynaptic trafficking and neuron-specific sorting of G protein-coupled receptors. *Journal of Biological Chemistry*, **2021**, 296, 100517	5.4	3
14	Modulating inhibitory response control through potentiation of GluN2D subunit-containing NMDA receptors. *Neuropharmacology*, **2020**, 173, 107994	5.5	2
13	Simultaneous determination of tianeptine and its active metabolite tianeptine MC5 in rat plasma and brain tissue using high performance liquid chromatography/electrospray ionization tandem mass spectrometry (LC-ESI-MS/MS). *Analytical Methods*, **2018**, 10, 439-447	3.2	2
12	Muscarinic Receptor Antagonists in Rats. *Frontiers in Neuroscience*, **2006**, 5-20		2
11	Oral quetiapine treatment results in time-dependent alterations of recognition memory and brain-derived neurotrophic factor-related signaling molecules in the hippocampus of rats. *Pharmacology Biochemistry and Behavior*, **2020**, 197, 172999	3.9	2
10	Drugs that target serotonergic receptors **2004**, 79-88		1
9	The Carbamate, Physostigmine does not Impair Axonal Transport in Rat Cortical Neurons. *Neuroscience Insights*, **2021**, 16, 26331055211020289	3	1
8	Nicotinic Receptor Ligands and Novel Object Recognition. *Handbook of Behavioral Neuroscience*, **2018**, 27, 379-390	0.7	1
7	A cellular approach to understanding and treating Gulf War Illness. *Cellular and Molecular Life Sciences*, **2021**, 78, 6941-6961	10.3	1
6	Dysregulation of cellular energetics in Gulf War Illness. *Toxicology*, **2021**, 461, 152894	4.4	1
5	Letter in response to Juberg and Burns. *Neurotoxicology and Teratology*, **2010**, 32, 649-650	3.9	
4	Kinase and Mitochondrial Targets for Reversing the Adverse Effects of Organophosphates on Axonal Transport. *FASEB Journal*, **2019**, 33, 813.7	0.9	
3	Tone identification behavior in Rattus norvegicus: muscarinic receptor blockage lowers responsiveness in nontarget selective neurons, while nicotinic receptor blockage selectively lowers target responses. *European Journal of Neuroscience*, **2017**, 46, 1779-1789	3.5	
2	Juvenile Plasma Factors Improve Organ Function and Survival following Injury by Promoting Antioxidant Response. **2022**, 13, 568-582		
1	Manganese-enhanced magnetic resonance imaging method detects age-related impairments in axonal transport in mice and attenuation of the impairments by a microtubule-stabilizing compound. *Brain Research*, **2022**, 1789, 147947	3.7	