John G Howland

List of Publications by Year
in descending order

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88	4,311	172457	114465
papers	citations	29 h-index	63 g-index

93	93	93	5078
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dissociable changes in spike and wave discharges following exposure to injected cannabinoids and smoked cannabis in Genetic Absence Epilepsy Rats from Strasbourg. European Journal of Neuroscience, 2022, 55, 1063-1078.	2.6	23
2	The type 1 cannabinoid receptor positive allosteric modulators GAT591 and GAT593 reduce spike-and-wave discharges in Genetic Absence Epilepsy Rats from Strasbourg. IBRO Neuroscience Reports, 2022, 12, 121-130.	1.6	5
3	The rodent medial prefrontal cortex and associated circuits in orchestrating adaptive behavior under variable demands. Neuroscience and Biobehavioral Reviews, 2022, 135, 104569.	6.1	19
4	The effects of acute Cannabis smoke or Î”9-THC injections on the trial-unique, nonmatching-to-location and five-choice serial reaction time tasks in male Long-Evans rats. Neurobiology of Learning and Memory, 2022, 192, 107624.	1.9	8
5	Task phaseâ€specific involvement of the rat posterior parietal cortex in performance of the TUNL task. Genes, Brain and Behavior, 2021, 20, e12659.	2.2	5
6	Positive allosteric modulation of type 1 cannabinoid receptors reduces spike-and-wave discharges in Genetic Absence Epilepsy Rats from Strasbourg. Neuropharmacology, 2021, 190, 108553.	4.1	22
7	Altered acoustic startle, prepulse facilitation, and object recognition memory produced by corticosterone withdrawal in male rats. Behavioural Brain Research, 2021, 408, 113291.	2.2	3
8	Adult neurogenesis mediates forgetting of multiple types of memory in the rat. Molecular Brain, 2021, 14, 97.	2.6	13
9	Effects of the cannabinoid receptor 1 positive allosteric modulator GAT211 and acute MK-801 on visual attention and impulsivity in rats assessed using the five-choice serial reaction time task. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2021, 109, 110235.	4.8	7
10	The Touchscreenâ€Based Trialâ€Unique, Nonmatchingâ€Toâ€Location (TUNL) Task as a Measure of Working Memory and Pattern Separation in Rats and Mice. Current Protocols, 2021, 1, e238.	2.9	3
11	Antipsychotic potential of the type 1 cannabinoid receptor positive allosteric modulator GAT211: preclinical in vitro and in vivo studies. Psychopharmacology, 2021, 238, 1087-1098.	3.1	6
12	Roles of the medial prefrontal cortex, mediodorsal thalamus, and their combined circuit for performance of the odor span task in rats: analysis of memory capacity and foraging behavior. Learning and Memory, 2020, 27, 67-77.	1.3	13
13	ChABC infusions into medial prefrontal cortex, but not posterior parietal cortex, improve the performance of rats tested on a novel, challenging delay in the touchscreen TUNL task. Learning and Memory, 2020, 27, 222-235.	1.3	7
14	NMDA Receptors in Visual and Olfactory Sensory Integration in Male Long Evans Rats: A Role for the Orbitofrontal Cortex. Neuroscience, 2020, 440, 230-238.	2.3	2
15	T-type calcium channels regulate the acquisition and recall of conditioned fear in male, Wistar rats. Behavioural Brain Research, 2020, 393, 112747.	2.2	3
16	Implementation of ezTrack open-source pipeline for quantifying rat locomotor behavior: Comparison to commercially available software. Neuroscience Letters, 2020, 723, 134839.	2.1	1
17	Cognitive Impairments in Touchscreen-based Visual Discrimination and Reversal Learning in Genetic Absence Epilepsy Rats from Strasbourg. Neuroscience, 2020, 430, 105-112.	2.3	11
18	Biological clocks and incremental growth line formation in dentine. Journal of Anatomy, 2020, 237, 367-378.	1.5	21

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19	Evidence for altered insulin signalling in the brains of genetic absence epilepsy rats from Strasbourg. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 1530-1536.	1.9	5
20	Maternal Immune Activation with the Viral Mimetic Poly:IC in Pregnant Rats. Bio-protocol, 2020, 10, e3817.	0.4	0
21	An Overview of Animal Models Related to Schizophrenia. Canadian Journal of Psychiatry, 2019, 64, 5-17.	1.9	138
22	Practical Aspects of Animal Models of Psychiatric Disorders. Canadian Journal of Psychiatry, 2019, 64, 3-4.	1.9	8
23	Maternal Immune Activation during Pregnancy Alters the Behavior Profile of Female Offspring of Sprague Dawley Rats. ENeuro, 2019, 6, ENEURO.0437-18.2019.	1.9	32
24	The Tâ€type calcium channel blocker Z944 reduces conditioned fear in Genetic Absence Epilepsy Rats from Strasbourg and the nonâ€epileptic control strain. European Journal of Neuroscience, 2019, 50, 3046-3059.	2.6	10
25	Performance of the trial-unique, delayed non-matching-to-location (TUNL) task depends on AMPA/Kainate, but not NMDA, ionotropic glutamate receptors in the rat posterior parietal cortex. Neurobiology of Learning and Memory, 2019, 159, 16-23.	1.9	16
26	The T-type calcium channel antagonist, Z944, alters social behavior in Genetic Absence Epilepsy Rats from Strasbourg. Behavioural Brain Research, 2019, 361, 54-64.	2.2	18
27	The Rat Medial Prefrontal Cortex Exhibits Flexible Neural Activity States during the Performance of an Odor Span Task. ENeuro, 2019, 6, ENEURO.0424-18.2019.	1.9	15
28	Performance of the odour span task is not impaired following inactivations of parietal cortex in rats. Behavioural Brain Research, 2018, 341, 181-188.	2.2	8
29	Acute stress, but not corticosterone, facilitates acquisition of paired associates learning in rats using touchscreen-equipped operant conditioning chambers. Behavioural Brain Research, 2018, 348, 139-149.	2.2	15
30	Competitive action video game players display rightward error bias during on-line video game play. Laterality, 2018, 23, 505-516.	1.0	2
31	Fast oxygen dynamics as a potential biomarker for epilepsy. Scientific Reports, 2018, 8, 17935.	3.3	16
32	Variants of the Spontaneous Recognition Procedure Assessing Multisensory Integration Reveal Behavioral Alterations in Rodent Models of Psychiatric and Neurological Disorders. Handbook of Behavioral Neuroscience, 2018, 27, 125-137.	0.7	1
33	Prospective Analysis of the Effects of Maternal Immune Activation on Rat Cytokines during Pregnancy and Behavior of the Male Offspring Relevant to Schizophrenia. ENeuro, 2018, 5, ENEURO.0249-18.2018.	1.9	48
34	Effects of the T-type calcium channel antagonist Z944 on paired associates learning and locomotor activity in rats treated with the NMDA receptor antagonist MK-801. Psychopharmacology, 2018, 235, 3339-3350.	3.1	5
35	T-type calcium channels in the orbitofrontal cortex mediate sensory integration as measured using a spontaneous oddity task in rats. Learning and Memory, 2018, 25, 317-324.	1.3	6
36	Impaired Cognitive Function after Perineuronal Net Degradation in the Medial Prefrontal Cortex. ENeuro, 2018, 5, ENEURO.0253-18.2018.	1.9	24

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37	Effects of stress on behavioral flexibility in rodents. Neuroscience, 2017, 345, 176-192.	2.3	56
38	Dissociable effects of the d- and l- enantiomers of govadine on the disruption of prepulse inhibition by MK-801 and apomorphine in male Long-Evans rats. Psychopharmacology, 2017, 234, 1079-1091.	3.1	6
39	Maternal immune activation during pregnancy in rats impairs working memory capacity of the offspring. Neurobiology of Learning and Memory, 2017, 141, 150-156.	1.9	45
40	Medial prefrontal cortex and dorsomedial striatum are necessary for the trial-unique, delayed nonmatching-to-location (TUNL) task in rats: role of NMDA receptors. Learning and Memory, 2017, 24, 262-266.	1.3	21
41	Interactions between medial prefrontal cortex and dorsomedial striatum are necessary for odor span capacity in rats: role of GluN2B-containing NMDA receptors. Learning and Memory, 2017, 24, 524-531.	1.3	20
42	Sociability impairments in Genetic Absence Epilepsy Rats from Strasbourg: Reversal by the T-type calcium channel antagonist Z944. Experimental Neurology, 2017, 296, 16-22.	4.1	26
43	Elevated sterol regulatory elementary binding protein 1 and GluA2 levels in the hippocampal nuclear fraction of Genetic Absence Epilepsy Rats from Strasbourg. Epilepsy Research, 2017, 136, 1-4.	1.6	4
44	MK-801-induced impairments on the trial-unique, delayed nonmatching-to-location task in rats: effects of acute sodium nitroprusside. Psychopharmacology, 2017, 234, 211-222.	3.1	19
45	Mapping Alterations to the Endogenous Elemental Distribution within the Lateral Ventricles and Choroid Plexus in Brain Disorders Using X-Ray Fluorescence Imaging. PLoS ONE, 2016, 11, e0158152.	2.5	18
46	The <scp>G</scp>enetic <scp>A</scp>bsence <scp>E</scp>pilepsy <scp>R</scp>ats from <scp>S</scp>trasbourg model of absence epilepsy exhibits alterations in fear conditioning and latent inhibition consistent with psychiatric comorbidities in humans. European Journal of Neuroscience, 2016, 43, 25-40.	2.6	31
47	Developmental disruption of perineuronal nets in the medial prefrontal cortex after maternal immune activation. Scientific Reports, 2016, 6, 37580.	3.3	58
48	The T-type calcium channel antagonist Z944 disrupts prepulse inhibition in both epileptic and non-epileptic rats. Neuroscience, 2016, 332, 121-129.	2.3	14
49	The T-type calcium channel antagonist Z944 rescues impairments in crossmodal and visual recognition memory in Genetic Absence Epilepsy Rats from Strasbourg. Neurobiology of Disease, 2016, 94, 106-115.	4.4	29
50	Effects of the metabotropic glutamate receptor 5 positive allosteric modulator CDPPB on rats tested with the paired associates learning task in touchscreen-equipped operant conditioning chambers. Behavioural Brain Research, 2016, 301, 152-160.	2.2	14
51	Chronic maternal hyperglycemia induced during mid-pregnancy in rats increases RAGE expression, augments hippocampal excitability, and alters behavior of the offspring. Neuroscience, 2015, 303, 241-260.	2.3	46
52	Effects of D- and L-govadine on the disruption of touchscreen object-location paired associates learning in rats by acute MK-801 treatment. Psychopharmacology, 2015, 232, 4371-4382.	3.1	18
53	Stress facilitates late reversal learning using a touchscreen-based visual discrimination procedure in male Long Evans rats. Behavioural Brain Research, 2015, 278, 21-28.	2.2	32
54	Behavioral alterations in rat offspring following maternal immune activation and ELR-CXC chemokine receptor antagonism during pregnancy: Implications for neurodevelopmental psychiatric disorders. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2015, 57, 155-165.	4.8	56

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55	Heightened fear in response to a safety cue and extinguished fear cue in a rat model of maternal immune activation. Frontiers in Behavioral Neuroscience, 2014, 8, 168.	2.0	26
56	Altered object exploration but not temporal order memory retrieval in an object recognition test following treatment of rats with the group II metabotropic glutamate receptor agonist LY379268. Neuroscience Letters, 2014, 560, 41-45.	2.1	3
57	Alterations in Reward, Fear and Safety Cue Discrimination after Inactivation of the Rat Prelimbic and Infralimbic Cortices. Neuropsychopharmacology, 2014, 39, 2405-2413.	5.4	101
58	Acute Stress Disrupts Short- and Long-Term Patterns of Synaptic Plasticity in Dorsal Hippocampus and Subiculum: Implications for Hippocampal Output and Behaviour. , 2014, , 183-201.		0
59	Effects of acute restraint stress on set-shifting and reversal learning in male rats. Cognitive, Affective and Behavioral Neuroscience, 2013, 13, 164-173.	2.0	50
60	Acute Stress, But not Corticosterone, Disrupts Short- and Long-Term Synaptic Plasticity in Rat Dorsal Subiculum Via Glucocorticoid Receptor Activation. Cerebral Cortex, 2013, 23, 2611-2619.	2.9	25
61	Acute stress and hippocampal output: exploring dorsal CA1 and subicular synaptic plasticity simultaneously in anesthetized rats. Physiological Reports, 2013, 1, e00035.	1.7	13
62	Inactivation of medial prefrontal cortex or acute stress impairs odor span in rats. Learning and Memory, 2013, 20, 665-669.	1.3	30
63	Hippocampal long-term depression mediates spatial reversal learning in the Morris water maze. Neuropharmacology, 2013, 64, 65-73.	4.1	182
64	GluN2B-containing NMDA receptors and AMPA receptors in medial prefrontal cortex are necessary for odor span in rats. Frontiers in Behavioral Neuroscience, 2013, 7, 183.	2.0	30
65	Prenatal exposure to a viral mimetic alters behavioural flexibility in male, but not female, rats. Neuropharmacology, 2012, 62, 1299-1307.	4.1	78
66	Altered object-in-place recognition memory, prepulse inhibition, and locomotor activity in the offspring of rats exposed to a viral mimetic during pregnancy. Neuroscience, 2012, 201, 184-198.	2.3	109
67	Odor preference learning and memory modify GluA1 phosphorylation and GluA1 distribution in the neonate rat olfactory bulb: Testing the AMPA receptor hypothesis in an appetitive learning model. Learning and Memory, 2011, 18, 283-291.	1.3	24
68	AMPA receptor endocytosis in rat perirhinal cortex underlies retrieval of object memory. Learning and Memory, 2011, 18, 688-692.	1.3	25
69	Acute stress disrupts paired pulse facilitation and longâ€term potentiation in rat dorsal hippocampus through activation of glucocorticoid receptors. Hippocampus, 2010, 20, 1327-1331.	1.9	45
70	Long-term depression in the CNS. Nature Reviews Neuroscience, 2010, 11, 459-473.	10.2	785
71	Hippocampal long-term depression is required for the consolidation of spatial memory. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16697-16702.	7.1	244
72	Converging effects of acute stress on spatial and recognition memory in rodents: A review of recent behavioural and pharmacological findings. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2010, 34, 733-741.	4.8	70

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73	Effects of acute stress and GluN2B-containing NMDA receptor antagonism on object and objectâ€“place recognition memory. Neurobiology of Learning and Memory, 2010, 93, 261-267.	1.9	59
74	Neural circuits engaged in ventral hippocampal modulation of dopamine function in medial prefrontal cortex and ventral striatum. Brain Structure and Function, 2008, 213, 183-195.	2.3	22
75	Ventral hippocampal involvement in temporal order, but not recognition, memory for spatial information. Hippocampus, 2008, 18, 251-257.	1.9	37
76	Chapter 8 Synaptic plasticity in learning and memory: Stress effects in the hippocampus. Progress in Brain Research, 2008, 169, 145-158.	1.4	210
77	Amygdaloid kindling is anxiogenic but fails to alter object recognition or spatial working memory in rats. Epilepsy and Behavior, 2008, 13, 52-61.	1.7	26
78	Hippocampal long-term depression mediates acute stress-induced spatial memory retrieval impairment. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11471-11476.	7.1	205
79	Kindling of basolateral amygdala but not ventral hippocampus or perirhinal cortex disrupts sensorimotor gating in rats. Behavioural Brain Research, 2007, 177, 30-36.	2.2	33
80	Anterior perirhinal cortex kindling produces long-lasting effects on anxiety and object recognition memory. European Journal of Neuroscience, 2005, 21, 1081-1090.	2.6	42
81	Interaction between Perirhinal and Medial Prefrontal Cortex Is Required for Temporal Order But Not Recognition Memory for Objects in Rats. Journal of Neuroscience, 2004, 24, 4596-4604.	3.6	195
82	Delayed onset of prepulse inhibition deficits following kainic acid treatment on postnatal day 7 in rats. European Journal of Neuroscience, 2004, 20, 2639-2648.	2.6	18
83	Electrical stimulation of the hippocampus disrupts prepulse inhibition in rats: frequency- and site-dependent effects. Behavioural Brain Research, 2004, 152, 187-197.	2.2	30
84	Medial prefrontal cortex is involved in spatial temporal order memory but not spatial recognition memory in tests relying on spontaneous exploration in rats. Behavioural Brain Research, 2004, 153, 273-285.	2.2	104
85	Amygdalar control of the mesocorticolimbic dopamine system: parallel pathways to motivated behavior. Neuroscience and Biobehavioral Reviews, 2003, 27, 543-554.	6.1	165
86	Glutamate Receptor-Dependent Modulation of Dopamine Efflux in the Nucleus Accumbens by Basolateral, But Not Central, Nucleus of the Amygdala in Rats. Journal of Neuroscience, 2002, 22, 1137-1145.	3.6	133
87	Susceptibility to Kindling and Neuronal Connections of the Anterior Claustrum. Journal of Neuroscience, 2001, 21, 3674-3687.	3.6	74
88	Dorsal Hippocampal Kindling Produces a Selective and Enduring Disruption of Hippocampally Mediated Behavior. Journal of Neuroscience, 2001, 21, 4443-4450.	3.6	61