

John G Howland

List of Publications by Year in descending order

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88
papers

4,311
citations

172457

29
h-index

114465

63
g-index

93
all docs

93
docs citations

93
times ranked

5078
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term depression in the CNS. <i>Nature Reviews Neuroscience</i> , 2010, 11, 459-473.	10.2	785
2	Hippocampal long-term depression is required for the consolidation of spatial memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16697-16702.	7.1	244
3	Chapter 8 Synaptic plasticity in learning and memory: Stress effects in the hippocampus. <i>Progress in Brain Research</i> , 2008, 169, 145-158.	1.4	210
4	Hippocampal long-term depression mediates acute stress-induced spatial memory retrieval impairment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11471-11476.	7.1	205
5	Interaction between Perirhinal and Medial Prefrontal Cortex Is Required for Temporal Order But Not Recognition Memory for Objects in Rats. <i>Journal of Neuroscience</i> , 2004, 24, 4596-4604.	3.6	195
6	Hippocampal long-term depression mediates spatial reversal learning in the Morris water maze. <i>Neuropharmacology</i> , 2013, 64, 65-73.	4.1	182
7	Amygdalar control of the mesocorticolimbic dopamine system: parallel pathways to motivated behavior. <i>Neuroscience and Biobehavioral Reviews</i> , 2003, 27, 543-554.	6.1	165
8	An Overview of Animal Models Related to Schizophrenia. <i>Canadian Journal of Psychiatry</i> , 2019, 64, 5-17.	1.9	138
9	Glutamate Receptor-Dependent Modulation of Dopamine Efflux in the Nucleus Accumbens by Basolateral, But Not Central, Nucleus of the Amygdala in Rats. <i>Journal of Neuroscience</i> , 2002, 22, 1137-1145.	3.6	133
10	Altered object-in-place recognition memory, prepulse inhibition, and locomotor activity in the offspring of rats exposed to a viral mimetic during pregnancy. <i>Neuroscience</i> , 2012, 201, 184-198.	2.3	109
11	Medial prefrontal cortex is involved in spatial temporal order memory but not spatial recognition memory in tests relying on spontaneous exploration in rats. <i>Behavioural Brain Research</i> , 2004, 153, 273-285.	2.2	104
12	Alterations in Reward, Fear and Safety Cue Discrimination after Inactivation of the Rat Prelimbic and Infralimbic Cortices. <i>Neuropsychopharmacology</i> , 2014, 39, 2405-2413.	5.4	101
13	Prenatal exposure to a viral mimetic alters behavioural flexibility in male, but not female, rats. <i>Neuropharmacology</i> , 2012, 62, 1299-1307.	4.1	78
14	Susceptibility to Kindling and Neuronal Connections of the Anterior Claustrum. <i>Journal of Neuroscience</i> , 2001, 21, 3674-3687.	3.6	74
15	Converging effects of acute stress on spatial and recognition memory in rodents: A review of recent behavioural and pharmacological findings. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2010, 34, 733-741.	4.8	70
16	Dorsal Hippocampal Kindling Produces a Selective and Enduring Disruption of Hippocampally Mediated Behavior. <i>Journal of Neuroscience</i> , 2001, 21, 4443-4450.	3.6	61
17	Effects of acute stress and GluN2B-containing NMDA receptor antagonism on object and object-in-place recognition memory. <i>Neurobiology of Learning and Memory</i> , 2010, 93, 261-267.	1.9	59
18	Developmental disruption of perineuronal nets in the medial prefrontal cortex after maternal immune activation. <i>Scientific Reports</i> , 2016, 6, 37580.	3.3	58

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19	Behavioral alterations in rat offspring following maternal immune activation and ELR-CXC chemokine receptor antagonism during pregnancy: Implications for neurodevelopmental psychiatric disorders. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2015, 57, 155-165.	4.8	56
20	Effects of stress on behavioral flexibility in rodents. <i>Neuroscience</i> , 2017, 345, 176-192.	2.3	56
21	Effects of acute restraint stress on set-shifting and reversal learning in male rats. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2013, 13, 164-173.	2.0	50
22	Prospective Analysis of the Effects of Maternal Immune Activation on Rat Cytokines during Pregnancy and Behavior of the Male Offspring Relevant to Schizophrenia. <i>ENeuro</i> , 2018, 5, ENEURO.0249-18.2018.	1.9	48
23	Chronic maternal hyperglycemia induced during mid-pregnancy in rats increases RAGE expression, augments hippocampal excitability, and alters behavior of the offspring. <i>Neuroscience</i> , 2015, 303, 241-260.	2.3	46
24	Acute stress disrupts paired pulse facilitation and long-term potentiation in rat dorsal hippocampus through activation of glucocorticoid receptors. <i>Hippocampus</i> , 2010, 20, 1327-1331.	1.9	45
25	Maternal immune activation during pregnancy in rats impairs working memory capacity of the offspring. <i>Neurobiology of Learning and Memory</i> , 2017, 141, 150-156.	1.9	45
26	Anterior perirhinal cortex kindling produces long-lasting effects on anxiety and object recognition memory. <i>European Journal of Neuroscience</i> , 2005, 21, 1081-1090.	2.6	42
27	Ventral hippocampal involvement in temporal order, but not recognition, memory for spatial information. <i>Hippocampus</i> , 2008, 18, 251-257.	1.9	37
28	Kindling of basolateral amygdala but not ventral hippocampus or perirhinal cortex disrupts sensorimotor gating in rats. <i>Behavioural Brain Research</i> , 2007, 177, 30-36.	2.2	33
29	Stress facilitates late reversal learning using a touchscreen-based visual discrimination procedure in male Long Evans rats. <i>Behavioural Brain Research</i> , 2015, 278, 21-28.	2.2	32
30	Maternal Immune Activation during Pregnancy Alters the Behavior Profile of Female Offspring of Sprague Dawley Rats. <i>ENeuro</i> , 2019, 6, ENEURO.0437-18.2019.	1.9	32
31	The genetic absence epilepsy rats from Strasbourg model of absence epilepsy exhibits alterations in fear conditioning and latent inhibition consistent with psychiatric comorbidities in humans. <i>European Journal of Neuroscience</i> , 2016, 43, 25-40.	2.6	31
32	Electrical stimulation of the hippocampus disrupts prepulse inhibition in rats: frequency- and site-dependent effects. <i>Behavioural Brain Research</i> , 2004, 152, 187-197.	2.2	30
33	Inactivation of medial prefrontal cortex or acute stress impairs odor span in rats. <i>Learning and Memory</i> , 2013, 20, 665-669.	1.3	30
34	GluN2B-containing NMDA receptors and AMPA receptors in medial prefrontal cortex are necessary for odor span in rats. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 183.	2.0	30
35	The T-type calcium channel antagonist Z944 rescues impairments in crossmodal and visual recognition memory in Genetic Absence Epilepsy Rats from Strasbourg. <i>Neurobiology of Disease</i> , 2016, 94, 106-115.	4.4	29
36	Amygdaloid kindling is anxiogenic but fails to alter object recognition or spatial working memory in rats. <i>Epilepsy and Behavior</i> , 2008, 13, 52-61.	1.7	26

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37	Heightened fear in response to a safety cue and extinguished fear cue in a rat model of maternal immune activation. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 168.	2.0	26
38	Sociability impairments in Genetic Absence Epilepsy Rats from Strasbourg: Reversal by the T-type calcium channel antagonist Z944. <i>Experimental Neurology</i> , 2017, 296, 16-22.	4.1	26
39	AMPA receptor endocytosis in rat perirhinal cortex underlies retrieval of object memory. <i>Learning and Memory</i> , 2011, 18, 688-692.	1.3	25
40	Acute Stress, But not Corticosterone, Disrupts Short- and Long-Term Synaptic Plasticity in Rat Dorsal Subiculum Via Glucocorticoid Receptor Activation. <i>Cerebral Cortex</i> , 2013, 23, 2611-2619.	2.9	25
41	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. <i>Learning and Memory</i> , 2011, 18, 283-291.	1.3	24
42	Impaired Cognitive Function after Perineuronal Net Degradation in the Medial Prefrontal Cortex. <i>ENeuro</i> , 2018, 5, ENEURO.0253-18.2018.	1.9	24
43	Dissociable changes in spike and wave discharges following exposure to injected cannabinoids and smoked cannabis in Genetic Absence Epilepsy Rats from Strasbourg. <i>European Journal of Neuroscience</i> , 2022, 55, 1063-1078.	2.6	23
44	Neural circuits engaged in ventral hippocampal modulation of dopamine function in medial prefrontal cortex and ventral striatum. <i>Brain Structure and Function</i> , 2008, 213, 183-195.	2.3	22
45	Positive allosteric modulation of type 1 cannabinoid receptors reduces spike-and-wave discharges in Genetic Absence Epilepsy Rats from Strasbourg. <i>Neuropharmacology</i> , 2021, 190, 108553.	4.1	22
46	Medial prefrontal cortex and dorsomedial striatum are necessary for the trial-unique, delayed nonmatching-to-location (TUNL) task in rats: role of NMDA receptors. <i>Learning and Memory</i> , 2017, 24, 262-266.	1.3	21
47	Biological clocks and incremental growth line formation in dentine. <i>Journal of Anatomy</i> , 2020, 237, 367-378.	1.5	21
48	Interactions between medial prefrontal cortex and dorsomedial striatum are necessary for odor span capacity in rats: role of GluN2B-containing NMDA receptors. <i>Learning and Memory</i> , 2017, 24, 524-531.	1.3	20
49	MK-801-induced impairments on the trial-unique, delayed nonmatching-to-location task in rats: effects of acute sodium nitroprusside. <i>Psychopharmacology</i> , 2017, 234, 211-222.	3.1	19
50	The rodent medial prefrontal cortex and associated circuits in orchestrating adaptive behavior under variable demands. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 135, 104569.	6.1	19
51	Delayed onset of prepulse inhibition deficits following kainic acid treatment on postnatal day 7 in rats. <i>European Journal of Neuroscience</i> , 2004, 20, 2639-2648.	2.6	18
52	Effects of D- and L-govadine on the disruption of touchscreen object-location paired associates learning in rats by acute MK-801 treatment. <i>Psychopharmacology</i> , 2015, 232, 4371-4382.	3.1	18
53	Mapping Alterations to the Endogenous Elemental Distribution within the Lateral Ventricles and Choroid Plexus in Brain Disorders Using X-Ray Fluorescence Imaging. <i>PLoS ONE</i> , 2016, 11, e0158152.	2.5	18
54	The T-type calcium channel antagonist, Z944, alters social behavior in Genetic Absence Epilepsy Rats from Strasbourg. <i>Behavioural Brain Research</i> , 2019, 361, 54-64.	2.2	18

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55	Fast oxygen dynamics as a potential biomarker for epilepsy. <i>Scientific Reports</i> , 2018, 8, 17935.	3.3	16
56	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. <i>Neurobiology of Learning and Memory</i> , 2019, 159, 16-23.	1.9	16
57	Acute stress, but not corticosterone, facilitates acquisition of paired associates learning in rats using touchscreen-equipped operant conditioning chambers. <i>Behavioural Brain Research</i> , 2018, 348, 139-149.	2.2	15
58	The Rat Medial Prefrontal Cortex Exhibits Flexible Neural Activity States during the Performance of an Odor Span Task. <i>ENeuro</i> , 2019, 6, ENEURO.0424-18.2019.	1.9	15
59	The T-type calcium channel antagonist Z944 disrupts prepulse inhibition in both epileptic and non-epileptic rats. <i>Neuroscience</i> , 2016, 332, 121-129.	2.3	14
60	Effects of the metabotropic glutamate receptor 5 positive allosteric modulator CDPBB on rats tested with the paired associates learning task in touchscreen-equipped operant conditioning chambers. <i>Behavioural Brain Research</i> , 2016, 301, 152-160.	2.2	14
61	Acute stress and hippocampal output: exploring dorsal CA1 and subicular synaptic plasticity simultaneously in anesthetized rats. <i>Physiological Reports</i> , 2013, 1, e00035.	1.7	13
62	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. <i>Learning and Memory</i> , 2020, 27, 67-77.	1.3	13
63	Adult neurogenesis mediates forgetting of multiple types of memory in the rat. <i>Molecular Brain</i> , 2021, 14, 97.	2.6	13
64	Cognitive Impairments in Touchscreen-based Visual Discrimination and Reversal Learning in Genetic Absence Epilepsy Rats from Strasbourg. <i>Neuroscience</i> , 2020, 430, 105-112.	2.3	11
65	The T-type calcium channel blocker Z944 reduces conditioned fear in Genetic Absence Epilepsy Rats from Strasbourg and the non-epileptic control strain. <i>European Journal of Neuroscience</i> , 2019, 50, 3046-3059.	2.6	10
66	Performance of the odour span task is not impaired following inactivations of parietal cortex in rats. <i>Behavioural Brain Research</i> , 2018, 341, 181-188.	2.2	8
67	Practical Aspects of Animal Models of Psychiatric Disorders. <i>Canadian Journal of Psychiatry</i> , 2019, 64, 3-4.	1.9	8
68	The effects of acute Cannabis smoke or δ^9 -THC injections on the trial-unique, nonmatching-to-location and five-choice serial reaction time tasks in male Long-Evans rats. <i>Neurobiology of Learning and Memory</i> , 2022, 192, 107624.	1.9	8
69	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. <i>Learning and Memory</i> , 2020, 27, 222-235.	1.3	7
70	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. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 109, 110235.	4.8	7
71	Dissociable effects of the d- and l- enantiomers of gavadine on the disruption of prepulse inhibition by MK-801 and apomorphine in male Long-Evans rats. <i>Psychopharmacology</i> , 2017, 234, 1079-1091.	3.1	6
72	T-type calcium channels in the orbitofrontal cortex mediate sensory integration as measured using a spontaneous oddity task in rats. <i>Learning and Memory</i> , 2018, 25, 317-324.	1.3	6

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73	Antipsychotic potential of the type 1 cannabinoid receptor positive allosteric modulator GAT211: preclinical in vitro and in vivo studies. <i>Psychopharmacology</i> , 2021, 238, 1087-1098.	3.1	6
74	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. <i>Psychopharmacology</i> , 2018, 235, 3339-3350.	3.1	5
75	Evidence for altered insulin signalling in the brains of genetic absence epilepsy rats from Strasbourg. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020, 47, 1530-1536.	1.9	5
76	Task phase-specific involvement of the rat posterior parietal cortex in performance of the TUNL task. <i>Genes, Brain and Behavior</i> , 2021, 20, e12659.	2.2	5
77	The type 1 cannabinoid receptor positive allosteric modulators GAT591 and GAT593 reduce spike-and-wave discharges in Genetic Absence Epilepsy Rats from Strasbourg. <i>IBRO Neuroscience Reports</i> , 2022, 12, 121-130.	1.6	5
78	Elevated sterol regulatory elementary binding protein 1 and GluA2 levels in the hippocampal nuclear fraction of Genetic Absence Epilepsy Rats from Strasbourg. <i>Epilepsy Research</i> , 2017, 136, 1-4.	1.6	4
79	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. <i>Neuroscience Letters</i> , 2014, 560, 41-45.	2.1	3
80	T-type calcium channels regulate the acquisition and recall of conditioned fear in male, Wistar rats. <i>Behavioural Brain Research</i> , 2020, 393, 112747.	2.2	3
81	Altered acoustic startle, prepulse facilitation, and object recognition memory produced by corticosterone withdrawal in male rats. <i>Behavioural Brain Research</i> , 2021, 408, 113291.	2.2	3
82	The Touchscreen-Based Trial-Unique, Nonmatching-Location (TUNL) Task as a Measure of Working Memory and Pattern Separation in Rats and Mice. <i>Current Protocols</i> , 2021, 1, e238.	2.9	3
83	Competitive action video game players display rightward error bias during on-line video game play. <i>Laterality</i> , 2018, 23, 505-516.	1.0	2
84	NMDA Receptors in Visual and Olfactory Sensory Integration in Male Long Evans Rats: A Role for the Orbitofrontal Cortex. <i>Neuroscience</i> , 2020, 440, 230-238.	2.3	2
85	Variants of the Spontaneous Recognition Procedure Assessing Multisensory Integration Reveal Behavioral Alterations in Rodent Models of Psychiatric and Neurological Disorders. <i>Handbook of Behavioral Neuroscience</i> , 2018, 27, 125-137.	0.7	1
86	Implementation of ezTrack open-source pipeline for quantifying rat locomotor behavior: Comparison to commercially available software. <i>Neuroscience Letters</i> , 2020, 723, 134839.	2.1	1
87	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
88	Maternal Immune Activation with the Viral Mimetic Poly:IC in Pregnant Rats. <i>Bio-protocol</i> , 2020, 10, e3817.	0.4	0