

# Richard E Brown

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4675648/publications.pdf>

Version: 2024-02-01

112  
papers

4,346  
citations

87888

38  
h-index

128289

60  
g-index

113  
all docs

113  
docs citations

113  
times ranked

4583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differences in Measures of Exploration and Fear in MHC-Congenic C57BL/6J and B6-H-2K Mice. <i>Behavior Genetics</i> , 1999, 29, 263-271.	2.1	164
2	The influence of visual ability on learning and memory performance in 13 strains of mice. <i>Learning and Memory</i> , 2007, 14, 134-144.	1.3	157
3	Early detection of cognitive deficits in the 3xTg-AD mouse model of Alzheimer's disease. <i>Behavioural Brain Research</i> , 2015, 289, 29-38.	2.2	155
4	The Major Histocompatibility Complex and the chemosensory recognition of individuality in rats. <i>Physiology and Behavior</i> , 1987, 40, 65-73.	2.1	148
5	The lonely mouse: Verification of a separation-induced model of depression in female mice. <i>Behavioural Brain Research</i> , 2010, 207, 196-207.	2.2	131
6	What are We Measuring When We Test Strain Differences in Anxiety in Mice?. <i>Behavior Genetics</i> , 2013, 43, 34-50.	2.1	118
7	The significance of father's presence for offspring survival in the monogamous California mouse, <i>Peromyscus californicus</i> . <i>Animal Behaviour</i> , 1993, 46, 539-546.	1.9	112
8	The legacy of Donald O. Hebb: more than the Hebb Synapse. <i>Nature Reviews Neuroscience</i> , 2003, 4, 1013-1019.	10.2	111
9	Visuo-spatial learning and memory deficits on the Barnes maze in the 16-month-old APPswe/PS1dE9 mouse model of Alzheimer's disease. <i>Behavioural Brain Research</i> , 2009, 201, 120-127.	2.2	109
10	Hormonal and experiential factors influencing parental behaviour in male rodents: An integrative approach. <i>Behavioural Processes</i> , 1993, 30, 1-27.	1.1	97
11	Effect of neonatal handling and paternal care on offspring cognitive development in the monogamous California mouse ( <i>Peromyscus californicus</i> ). <i>Hormones and Behavior</i> , 2004, 46, 30-38.	2.1	94
12	Maternal Behavior in Female C57BL/6J and DBA/2J Inbred Mice. <i>Physiology and Behavior</i> , 1999, 67, 599-605.	2.1	91
13	Age-related changes in visual acuity, learning and memory in C57BL/6J and DBA/2J mice. <i>Neurobiology of Aging</i> , 2007, 28, 1577-1593.	3.1	90
14	Translation of Pre-Clinical Studies into Successful Clinical Trials for Alzheimer's Disease: What are the Roadblocks and How Can They Be Overcome?1. <i>Journal of Alzheimer's Disease</i> , 2015, 47, 815-843.	2.6	84
15	Medial preoptic lesions disrupt parental behavior in both male and female California mice ( <i>Peromyscus californicus</i> ).. <i>Behavioral Neuroscience</i> , 2002, 116, 968-975.	1.2	77
16	Comparison of medial preoptic, amygdala, and nucleus accumbens lesions on parental behavior in California mice ( <i>Peromyscus californicus</i> ). <i>Physiology and Behavior</i> , 2007, 92, 617-628.	2.1	77
17	Reference and working memory deficits in the 3xTg-AD mouse between 2 and 15-months of age: A cross-sectional study. <i>Behavioural Brain Research</i> , 2015, 278, 496-505.	2.2	71
18	Measuring anxiety- and locomotion-related behaviours in mice: a new way of using old tests. <i>Psychopharmacology</i> , 2010, 211, 99-112.	3.1	70

#	ARTICLE	IF	CITATIONS
19	The Synaptic Theory of Memory: A Historical Survey and Reconciliation of Recent Opposition. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 52.	2.5	69
20	The problem of genotype and sex differences in life expectancy in transgenic AD mice. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 57, 238-251.	6.1	68
21	Learning, memory and search strategies of inbred mouse strains with different visual abilities in the Barnes maze. <i>Behavioural Brain Research</i> , 2011, 216, 531-542.	2.2	64
22	Understanding autism and other neurodevelopmental disorders through experimental translational neurobehavioral models. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 65, 292-312.	6.1	63
23	What is the role of the immune system in determining individually distinct body odours?. <i>International Journal of Immunopharmacology</i> , 1995, 17, 655-661.	1.1	60
24	How Many Ways Can Mouse Behavioral Experiments Go Wrong? Confounding Variables in Mouse Models of Neurodegenerative Diseases and How to Control Them. <i>Advances in the Study of Behavior</i> , 2010, , 255-366.	1.6	60
25	The effects of apparatus design and test procedure on learning and memory performance of C57BL/6j mice on the Barnes maze. <i>Journal of Neuroscience Methods</i> , 2012, 203, 315-324.	2.5	60
26	Age-related deterioration of motor function in male and female 5xFAD mice from 3 to 16 months of age. <i>Genes, Brain and Behavior</i> , 2020, 19, e12538.	2.2	58
27	Optimization of apparatus design and behavioral measures for the assessment of visuo-spatial learning and memory of mice on the Barnes maze. <i>Learning and Memory</i> , 2013, 20, 85-96.	1.3	57
28	Class I and class II regions of the major histocompatibility complex both contribute to individual odors in congenic inbred strains of rats. <i>Behavior Genetics</i> , 1989, 19, 659-674.	2.1	56
29	Analysis of motor function in 6-month-old male and female 3xTg-AD mice. <i>Behavioural Brain Research</i> , 2015, 281, 16-23.	2.2	56
30	The importance of paternal care on pup survival and pup growth in <i>Peromyscus californicus</i> when required to work for food. <i>Behavioural Processes</i> , 2002, 60, 41-52.	1.1	54
31	Of mice and men: Virtual Hebb-Williams mazes permit comparison of spatial learning across species. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2001, 1, 83-89.	2.0	51
32	Nest building in nulligravid, primigravid and primiparous C57BL/6J and DBA/2J mice ( <i>Mus musculus</i> ). <i>Physiology and Behavior</i> , 2002, 75, 551-555.	2.1	48
33	Sex Differences in Healthspan Predict Lifespan in the 3xTg-AD Mouse Model of Alzheimer's Disease. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 172.	3.4	46
34	Daily methylphenidate administration attenuates c-fos expression in the striatum of prepubertal rats. <i>NeuroReport</i> , 2003, 14, 769-772.	1.2	44
35	Genetic and environmental modulation of neurodevelopmental disorders: Translational insights from labs to beds. <i>Brain Research Bulletin</i> , 2016, 125, 79-91.	3.0	43
36	Effects of Subchronic Methylphenidate Hydrochloride Administration on the Locomotor and Exploratory Behavior of Prepubertal Mice. <i>Journal of Child and Adolescent Psychopharmacology</i> , 2000, 10, 277-286.	1.3	42

#	ARTICLE	IF	CITATIONS
37	Training rats to discriminate between the odors of individual conspecifics. <i>Learning and Behavior</i> , 1991, 19, 223-233.	3.4	41
38	Sex and Genotype Differences in Odor Detection in the 3 $\beta$ -Tg-AD and 5XFAD Mouse Models of Alzheimer's Disease at 6 Months of Age. <i>Chemical Senses</i> , 2016, 41, 433-440.	2.0	41
39	Dopaminergic modulation of rat pup ultrasonic vocalizations. <i>European Journal of Pharmacology</i> , 1999, 382, 53-67.	3.5	39
40	Effect of resource availability on biparental care, and offspring neural and behavioral development in the California mouse ( <i>Peromyscus californicus</i> ). <i>European Journal of Neuroscience</i> , 2007, 25, 567-575.	2.6	39
41	Hippocampal Mechanisms Underlying Impairment in Spatial Learning Long After Establishment of Noise-Induced Hearing Loss in CBA Mice. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 35.	2.5	38
42	A comparison of the contribution of the major histocompatibility complex (MHC) and Y chromosomes to the discriminability of individual urine odors of mice by Long-Evans rats. <i>Behavior Genetics</i> , 1993, 23, 257-263.	2.1	37
43	Age-related distribution of c-fos expression in the striatum of CD-1 mice after acute methylphenidate administration. <i>Developmental Brain Research</i> , 2002, 135, 71-77.	1.7	37
44	Odors of individuality originating from the major histocompatibility complex are masked by diet cues in the urine of rats. <i>Learning and Behavior</i> , 1997, 25, 193-199.	3.4	36
45	Hebb and Cattell: The Genesis of the Theory of Fluid and Crystallized Intelligence. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 606.	2.0	35
46	Age-related changes in visual acuity, learning and memory in the APP <sup>swe</sup> /PS1 <sup>dE9</sup> mouse model of Alzheimer's disease. <i>Behavioural Brain Research</i> , 2012, 231, 75-85.	2.2	34
47	Interaction of hunger and sexual motivation in the male rat: A time-sharing approach. <i>Animal Behaviour</i> , 1979, 27, 887-896.	1.9	33
48	A Neurobehavioral Analysis of the Prevention of Visual Impairment in the DBA/2J Mouse Model of Glaucoma. , 2012, 53, 5956.		33
49	Effects of the Novel IDO Inhibitor DWG-1036 on the Behavior of Male and Female 3xTg-AD Mice. <i>Frontiers in Pharmacology</i> , 2019, 10, 1044.	3.5	33
50	The importance of behavioural bioassays in neuroscience. <i>Journal of Neuroscience Methods</i> , 2018, 300, 68-76.	2.5	32
51	Motor deficits in 16-month-old male and female 3xTg-AD mice. <i>Behavioural Brain Research</i> , 2019, 356, 305-313.	2.2	32
52	Maternal behavior, paternal behavior, and pup survival in CD-1 albino mice ( <i>Mus musculus</i> ) in three different housing conditions.. <i>Journal of Comparative Psychology (Washington, D C: 1983)</i> , 2000, 114, 183-192.	0.5	30
53	Insights into the life and work of Sir Charles Sherrington. <i>Nature Reviews Neuroscience</i> , 2010, 11, 429-436.	10.2	30
54	Ultrasonic vocalizations and ontogenetic development in California mice ( <i>Peromyscus californicus</i> ). <i>Behavioural Processes</i> , 2002, 59, 147-156.	1.1	29

#	ARTICLE	IF	CITATIONS
55	Subchronic methylphenidate administration has no effect on locomotion, emotional behavior, or water maze learning in prepubertal mice. <i>Developmental Psychobiology</i> , 2002, 41, 123-132.	1.6	29
56	Olfactory delayed matching to sample performance in mice: Sex differences in the 5XFAD mouse model of Alzheimer's disease. <i>Behavioural Brain Research</i> , 2014, 270, 165-170.	2.2	29
57	Prenatal exposure to methylphenidate hydrochloride decreases anxiety and increases exploration in mice. <i>Pharmacology Biochemistry and Behavior</i> , 2004, 77, 491-500.	2.9	28
58	DHA, EPA and their combination at various ratios differently modulated A $\beta$ 25-35-induced neurotoxicity in SH-SY5Y cells. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2018, 136, 85-94.	2.2	27
59	Donald O. Hebb and the Organization of Behavior: 17 years in the writing. <i>Molecular Brain</i> , 2020, 13, 55.	2.6	26
60	Sex differences in ultrasonic vocalizations and coordinated movement in the California mouse ( <i>Peromyscus californicus</i> ). <i>Behavioural Processes</i> , 2004, 65, 155-162.	1.1	25
61	The ontogeny of ultrasonic vocalizations and other behaviors in male jimpy (jp/Y) Mice and their normal male littermates. <i>Developmental Psychobiology</i> , 1994, 27, 101-110.	1.6	24
62	Are Sema5a mutant mice a good model of autism? A behavioral analysis of sensory systems, emotionality and cognition. <i>Behavioural Brain Research</i> , 2011, 225, 142-150.	2.2	24
63	Preferences of pre- and post-weanling long-evans rats for nest odors. <i>Physiology and Behavior</i> , 1982, 29, 865-874.	2.1	22
64	Long-term methylphenidate treatment down-regulates c-fos in the striatum of male CD-1 mice. <i>NeuroReport</i> , 2004, 15, 1045-1048.	1.2	22
65	Maternal genotype influences behavioral development of 3 $\times$ Tg-AD mouse pups. <i>Behavioural Brain Research</i> , 2013, 252, 40-48.	2.2	21
66	Cognitive Decline, Cerebral-Spleen Tryptophan Metabolism, Oxidative Stress, Cytokine Production, and Regulation of the Txnip Gene in a Triple Transgenic Mouse Model of Alzheimer Disease. <i>American Journal of Pathology</i> , 2019, 189, 1435-1450.	3.8	21
67	Sex differences in the timing behavior performance of 3xTg-AD and wild-type mice in the peak interval procedure. <i>Behavioural Brain Research</i> , 2019, 360, 235-243.	2.2	21
68	Pathfinder: open source software for analyzing spatial navigation search strategies. <i>F1000Research</i> , 2019, 8, 1521.	1.6	21
69	Visuo-spatial learning and memory impairments in the 5xFAD mouse model of Alzheimer's disease: Effects of age, sex, albinism, and motor impairments. <i>Genes, Brain and Behavior</i> , 2022, 21, e12794.	2.2	21
70	Effects of chronic and acute methylphenidate hydrochloride (ritalin) administration on locomotor activity, ultrasonic vocalizations, and neuromotor development in 3- to 11-day-old CD-1 mouse pups. <i>Developmental Psychobiology</i> , 2001, 39, 216-228.	1.6	19
71	The presence of the male facilitates parturition in California mice ( <i>Peromyscus californicus</i> ). <i>Canadian Journal of Zoology</i> , 2002, 80, 926-933.	1.0	19
72	Prevention of vision loss protects against age-related impairment in learning and memory performance in DBA/2J mice. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 52.	3.4	19

#	ARTICLE	IF	CITATIONS
73	Locomotor activity, emotionality, sensori-motor gating, learning and memory in the APP <sup>swe</sup> /PS1 <sup>dE9</sup> mouse model of Alzheimer's disease. <i>Brain Research Bulletin</i> , 2018, 140, 347-354.	3.0	19
74	Intact olfactory memory in the 5xFAD mouse model of Alzheimer's disease from 3 to 15 months of age. <i>Behavioural Brain Research</i> , 2020, 393, 112731.	2.2	19
75	Age related weight loss in female 5xFAD mice from 3 to 12 months of age. <i>Behavioural Brain Research</i> , 2021, 406, 113214.	2.2	19
76	Behavioural phenotyping of transgenic mice.. <i>Canadian Journal of Experimental Psychology</i> , 2007, 61, 328-344.	0.8	18
77	An Extract from Shrimp Processing By-Products Protects SH-SY5Y Cells from Neurotoxicity Induced by A $\beta$ <sub>25-35</sub> . <i>Marine Drugs</i> , 2017, 15, 83.	4.6	18
78	Improving treatment of neurodevelopmental disorders: recommendations based on preclinical studies. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 11-25.	5.0	16
79	Age and sex differences in motivation and spatial working memory in 3xTg-AD mice in the Hebb-Williams maze. <i>Behavioural Brain Research</i> , 2019, 370, 111937.	2.2	16
80	Interval timing is disrupted in female 5xFAD mice: An indication of altered memory processes. <i>Journal of Neuroscience Research</i> , 2019, 97, 817-827.	2.9	16
81	Responses of dominant and subordinate male rats to the odors of male and female conspecifics. <i>Aggressive Behavior</i> , 1992, 18, 129-138.	2.4	15
82	FOS and FOSB expression in the medial preoptic nucleus pars compacta of maternally active C57BL/6J and DBA/2J mice. <i>Brain Research</i> , 2002, 952, 170-175.	2.2	15
83	MHC-congenic mice (C57BL/6J) and B6-H-2K) show differences in speed but not accuracy in learning the Hebb-Williams Maze. <i>Behavioural Brain Research</i> , 2003, 144, 187-197.	2.2	15
84	Whisker exploration behaviours in the 5xFAD mouse are affected by sex and retinal degeneration. <i>Genes, Brain and Behavior</i> , 2020, 19, e12532.	2.2	14
85	Effects of social isolation in adulthood on odor preferences and urine-marking in male rats. <i>Behavioral and Neural Biology</i> , 1985, 44, 139-143.	2.2	12
86	Age-Related Changes in the Spatial Frequency Threshold of Male and Female 3xTg-AD Mice Using OptoMotry. <i>Journal of Alzheimer's Disease</i> , 2018, 62, 591-596.	2.6	12
87	The effect of background strain on the behavioral phenotypes of the MDGA2 <sup>+/+</sup> mouse model of autism spectrum disorder. <i>Genes, Brain and Behavior</i> , 2021, 20, e12696.	2.2	11
88	Behavioural studies of MHC-congenic mice. <i>Genetica</i> , 1998, 104, 249-257.	1.1	10
89	Attenuation of maternal behavior in virgin CD-1 mice by methylphenidate hydrochloride. <i>Physiology and Behavior</i> , 2008, 95, 395-399.	2.1	9
90	Effect of NCAM on aged-related deterioration in vision. <i>Neurobiology of Aging</i> , 2016, 41, 93-106.	3.1	9

#	ARTICLE	IF	CITATIONS
91	Recommendations for measuring whisker movements and locomotion in mice with sensory, motor and cognitive deficits. <i>Journal of Neuroscience Methods</i> , 2020, 331, 108532.	2.5	9
92	Selective retrieval of jimpy mutant pups over normal male littermates by lactating female B6CBACa-A w-J /A-Ta jp mice. <i>Behavior Genetics</i> , 1995, 25, 75-80.	2.1	8
93	The effect of chlordiazepoxide on measures of activity and anxiety in Swiss-Webster mice in the triple test. <i>Neuropharmacology</i> , 2012, 63, 883-889.	4.1	8
94	Why Study the History of Neuroscience?. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 82.	2.0	8
95	The Hebb Synapse Before Hebb: Theories of Synaptic Function in Learning and Memory Before Hebb (1949), With a Discussion of the Long-Lost Synaptic Theory of William McDougall. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 732195.	2.0	8
96	Searching for the Source of Urinary Odors of Individuality in Rodents. , 1999, , 267-280.		7
97	Age-related deficits in working memory in 5xFAD mice in the Hebb-Williams maze. <i>Behavioural Brain Research</i> , 2022, 424, 113806.	2.2	7
98	Neuroscience without borders: Preserving the history of neuroscience. <i>European Journal of Neuroscience</i> , 2018, 48, 2099-2109.	2.6	5
99	The life and work of Donald Olding Hebb. <i>Acta Neurologica Taiwanica</i> , 2006, 15, 127-42.	0.3	5
100	Revisiting Hebb: The organization of behavior. , 2017, , 69-93.		4
101	Polysialylated $\alpha$ neural cell adhesion molecule (PSA-NCAM) promotes recovery of vision after the critical period. <i>Molecular and Cellular Neurosciences</i> , 2020, 107, 103527.	2.2	3
102	The 100th Anniversary of the Russian Pavlov Physiological Society. <i>Physiology</i> , 2017, 32, 402-407.	3.1	2
103	Genotype and Sex Differences in Longevity in Transgenic Mouse Models of Alzheimer's Disease. , 2018, , 563-576.		2
104	Abnormal whisker movements in the $3 \times Tg$ AD mouse model of Alzheimer's disease. <i>Genes, Brain and Behavior</i> , 0, , .	2.2	2
105	Separation-Induced Depression in the Mouse. <i>Neuromethods</i> , 2011, , 235-250.	0.3	1
106	Genetically modified mice for research on human diseases: A triumph for Biotechnology or a work in progress?. <i>The EuroBiotech Journal</i> , 2022, 6, 61-88.	1.0	1
107	A Signal Detection Analysis of Olfactory Learning in 12-Month-Old 5xFAD Mice. <i>Journal of Alzheimer's Disease</i> , 2022, , 1-8.	2.6	1
108	Other mazes. , 0, , 304-314.		0

#	ARTICLE	IF	CITATIONS
109	P4â€43: Behavioural Phenotyping of Alzheimer's Disease Model Mice: Understanding Mouse Models of Alzheimer's Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P1031.	0.8	0
110	Neuroscience education and research in Cameroon: Current status and future direction. <i>IBRO Neuroscience Reports</i> , 2021, 10, 216-224.	1.6	0
111	Donald O. Hebb. , 2017, , 1-4.		0
112	Donald O. Hebb. , 2022, , 2117-2120.		0