Anthony J Hannan

List of Publications by Citations

219 papers	10,429 citations	53 h-index	96 g-index
247 ext. papers	11,944 ext. citations	6.2 avg, IF	6.84 L-index

#	Paper	IF	Citations
219	Enriched environments, experience-dependent plasticity and disorders of the nervous system. *Nature Reviews Neuroscience*, **2006**, 7, 697-709	13.5	1230
218	Delaying the onset of Huntington℞ in mice. *Nature*, **2000**, 404, 721-2	50.4	406
217	Environmental enrichment rescues protein deficits in a mouse model of Huntington℞ disease, indicating a possible disease mechanism. *Journal of Neuroscience*, **2004**, 24, 2270-6	6.6	305
216	Environmental enrichment slows disease progression in R6/2 Huntington℞ disease mice. *Annals of Neurology*, **2002**, 51, 235-42	9.4	282
215	Mutant huntingtin℞ effects on striatal gene expression in mice recapitulate changes observed in human Huntington℞ disease brain and do not differ with mutant huntingtin length or wild-type huntingtin dosage. *Human Molecular Genetics*, **2007**, 16, 1845-61	5.6	271
214	The neurobiology of brain and cognitive reserve: mental and physical activity as modulators of brain disorders. *Progress in Neurobiology*, **2009**, 89, 369-82	10.9	233
213	Effects of enriched environment on animal models of neurodegenerative diseases and psychiatric disorders. *Neurobiology of Disease*, **2008**, 31, 159-68	7.5	222
212	Differential effects of voluntary physical exercise on behavioral and brain-derived neurotrophic factor expression deficits in Huntington℞ disease transgenic mice. *Neuroscience*, **2006**, 141, 569-584	3.9	217
211	PLC-beta1, activated via mGluRs, mediates activity-dependent differentiation in cerebral cortex. *Nature Neuroscience*, **2001**, 4, 282-8	25.5	187
210	Gene-environment interactions modulating cognitive function and molecular correlates of synaptic plasticity in Huntington℞ disease transgenic mice. *Neurobiology of Disease*, **2008**, 29, 490-504	7.5	158
209	Tandem repeats mediating genetic plasticity in health and disease. *Nature Reviews Genetics*, **2018**, 19, 286-298	30.1	156
208	Cognitive disorders and neurogenesis deficits in Huntington℞ disease mice are rescued by fluoxetine. *European Journal of Neuroscience*, **2005**, 22, 2081-8	3.5	155
207	Environmental enrichment and brain repair: harnessing the therapeutic effects of cognitive stimulation and physical activity to enhance experience-dependent plasticity. *Neuropathology and Applied Neurobiology*, **2014**, 40, 13-25	5.2	151
206	Environmental enrichment ameliorates a motor coordination deficit in a mouse model of Rett syndrome--Mecp2 gene dosage effects and BDNF expression. *European Journal of Neuroscience*, **2008**, 27, 3342-50	3.5	151
205	Dendritic spine pathology and deficits in experience-dependent dendritic plasticity in R6/1 Huntington℞ disease transgenic mice. *European Journal of Neuroscience*, **2004**, 19, 2799-807	3.5	150
204	Altered serotonin receptor expression is associated with depression-related behavior in the R6/1 transgenic mouse model of Huntington℞ disease. *Human Molecular Genetics*, **2009**, 18, 753-66	5.6	147
203	Neurogenesis in the R6/1 transgenic mouse model of Huntington℞ disease: effects of environmental enrichment. *European Journal of Neuroscience*, **2006**, 23, 1829-38	3.5	141

202	The Role of Epigenetic Change in Autism Spectrum Disorders. *Frontiers in Neurology*, **2015**, 6, 107	4.1	138
201	Decreased hippocampal cell proliferation in R6/1 Huntington mice. *NeuroReport*, **2004**, 15, 811-3	1.7	131
200	Magnetic resonance imaging as an approach towards identifying neuropathological biomarkers for Huntington disease. *Brain Research Reviews*, **2008**, 58, 209-25		129
199	Enhancement of cognitive function in models of brain disease through environmental enrichment and physical activity. *Neuropharmacology*, **2013**, 64, 515-28	5.5	122
198	Delayed onset of Huntington disease in mice in an enriched environment correlates with delayed loss of cannabinoid CB1 receptors. *Neuroscience*, **2004**, 123, 207-12	3.9	122
197	Wheel running and environmental enrichment differentially modify exon-specific BDNF expression in the hippocampus of wild-type and pre-motor symptomatic male and female Huntington disease mice. *Hippocampus*, **2010**, 20, 621-36	3.5	116
196	Elevated paternal glucocorticoid exposure alters the small noncoding RNA profile in sperm and modifies anxiety and depressive phenotypes in the offspring. *Translational Psychiatry*, **2016**, 6, e837	8.6	109
195	Phospholipase C-beta1 knockout mice exhibit endophenotypes modeling schizophrenia which are rescued by environmental enrichment and clozapine administration. *Molecular Psychiatry*, **2008**, 13, 661-72	15.1	106
194	Characterization of nodular neuronal heterotopia in children. *Brain*, **1999**, 122 (Pt 2), 219-38	11.2	104
193	Tandem repeat polymorphisms: modulators of disease susceptibility and candidates for "missing heritability". *Trends in Genetics*, **2010**, 26, 59-65	8.5	103
192	Clozapine reverses schizophrenia-related behaviours in the metabotropic glutamate receptor 5 knockout mouse: association with N-methyl-D-aspartic acid receptor up-regulation. *International Journal of Neuropsychopharmacology*, **2009**, 12, 45-60	5.8	98
191	Simple sequence repeats: genetic modulators of brain function and behavior. *Trends in Neurosciences*, **2008**, 31, 328-34	13.3	98
190	N-Acetylaspartate and DARPP-32 levels decrease in the corpus striatum of Huntington disease mice. *NeuroReport*, **2000**, 11, 3751-7	1.7	91
189	Deficits in experience-dependent cortical plasticity and sensory-discrimination learning in presymptomatic Huntington disease mice. *Journal of Neuroscience*, **2005**, 25, 3059-66	6.6	90
188	Exercise, diet and stress as modulators of gut microbiota: Implications for neurodegenerative diseases. *Neurobiology of Disease*, **2020**, 134, 104621	7.5	90
187	Wheel running from a juvenile age delays onset of specific motor deficits but does not alter protein aggregate density in a mouse model of Huntington disease. *BMC Neuroscience*, **2008**, 9, 34	3.2	88
186	Exercise alters mouse sperm small noncoding RNAs and induces a transgenerational modification of male offspring conditioned fear and anxiety. *Translational Psychiatry*, **2017**, 7, e1114	8.6	85
185	Altered CB1 receptor and endocannabinoid levels precede motor symptom onset in a transgenic mouse model of Huntington disease. *Neuroscience*, **2009**, 163, 456-65	3.9	82

184	N-Acetylcysteine improves mitochondrial function and ameliorates behavioral deficits in the R6/1 mouse model of Huntington's disease. *Translational Psychiatry*, **2015**, 5, e492	8.6	80
183	Regulators of adult neurogenesis in the healthy and diseased brain. *Clinical and Experimental Pharmacology and Physiology*, **2007**, 34, 533-45	3	79
182	Dynamic mutations as digital genetic modulators of brain development, function and dysfunction. *BioEssays*, **2007**, 29, 525-35	4.1	78
181	Nature, nurture and neurology: gene-environment interactions in neurodegenerative disease. FEBS Anniversary Prize Lecture delivered on 27 June 2004 at the 29th FEBS Congress in Warsaw. *FEBS Journal*, **2005**, 272, 2347-61	5.7	78
180	Microbiome profiling reveals gut dysbiosis in a transgenic mouse model of Huntington's disease. *Neurobiology of Disease*, **2020**, 135, 104268	7.5	70
179	Sex-specific disruptions in spatial memory and anhedonia in a "two hit" rat model correspond with alterations in hippocampal brain-derived neurotrophic factor expression and signaling. *Hippocampus*, **2014**, 24, 1197-211	3.5	69
178	Transgenerational epigenetic influences of paternal environmental exposures on brain function and predisposition to psychiatric disorders. *Molecular Psychiatry*, **2019**, 24, 536-548	15.1	67
177	Environmental factors as modulators of neurodegeneration: insights from gene-environment interactions in Huntington's disease. *Neuroscience and Biobehavioral Reviews*, **2015**, 52, 178-92	9	66
176	Dysregulation of synaptic proteins, dendritic spine abnormalities and pathological plasticity of synapses as experience-dependent mediators of cognitive and psychiatric symptoms in Huntington's disease. *Neuroscience*, **2013**, 251, 66-74	3.9	64
175	Activity-dependent regulation of synapse and dendritic spine morphology in developing barrel cortex requires phospholipase C-beta1 signalling. *Cerebral Cortex*, **2005**, 15, 385-93	5.1	61
174	Sexually dimorphic serotonergic dysfunction in a mouse model of Huntington's disease and depression. *PLoS ONE*, **2011**, 6, e22133	3.7	58
173	Behavioural and molecular consequences of chronic cannabinoid treatment in Huntington's disease transgenic mice. *Neuroscience*, **2010**, 170, 324-36	3.9	58
172	Intracellular localization of tropomyosin mRNA and protein is associated with development of neuronal polarity. *Molecular and Cellular Neurosciences*, **1995**, 6, 397-412	4.8	57
171	Structural compartments within neurons: developmentally regulated organization of microfilament isoform mRNA and protein. *Molecular and Cellular Neurosciences*, **1998**, 11, 289-304	4.8	55
170	Long-term behavioral and NMDA receptor effects of young-adult corticosterone treatment in BDNF heterozygous mice. *Neurobiology of Disease*, **2012**, 46, 722-31	7.5	54
169	Treatment of depressive-like behaviour in Huntington's disease mice by chronic sertraline and exercise. *British Journal of Pharmacology*, **2012**, 165, 1375-89	8.6	53
168	Olfactory abnormalities in Huntington's disease: decreased plasticity in the primary olfactory cortex of R6/1 transgenic mice and reduced olfactory discrimination in patients. *Brain Research*, **2007**, 1151, 219-26	3.7	53
167	Anterior cingulate cortical transplantation in transgenic Huntington's disease mice. *Brain Research Bulletin*, **2001**, 56, 313-8	3.9	53

166	Gene-environment interactions and construct validity in preclinical models of psychiatric disorders. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2011**, 35, 1376-82	5.5	49
165	Environmental enrichment rescues female-specific hyperactivity of the hypothalamic-pituitary-adrenal axis in a model of Huntington's disease. *Translational Psychiatry*, **2012**, 2, e133	8.6	49
164	PLC-beta1 knockout mice as a model of disrupted cortical development and plasticity: behavioral endophenotypes and dysregulation of RGS4 gene expression. *Hippocampus*, **2008**, 18, 824-34	3.5	48
163	Sex-specific behavioural effects of environmental enrichment in a transgenic mouse model of amyotrophic lateral sclerosis. *European Journal of Neuroscience*, **2008**, 28, 717-23	3.5	47
162	Genetic and environmental factors in the pathogenesis of Huntington's disease. *Neurogenetics*, **2004**, 5, 9-17	3	46
161	Phospholipase C-beta1 expression correlates with neuronal differentiation and synaptic plasticity in rat somatosensory cortex. *Neuropharmacology*, **1998**, 37, 593-605	5.5	45
160	Toxoplasmosis: A pathway to neuropsychiatric disorders. *Neuroscience and Biobehavioral Reviews*, **2019**, 96, 72-92	9	45
159	Environmental Enrichment Ameliorates Behavioral Impairments Modeling Schizophrenia in Mice Lacking Metabotropic Glutamate Receptor 5. *Neuropsychopharmacology*, **2015**, 40, 1947-56	8.7	44
158	A neuroligin-3 mutation implicated in autism causes abnormal aggression and increases repetitive behavior in mice. *Molecular Autism*, **2015**, 6, 62	6.5	43
157	Mechanisms mediating brain and cognitive reserve: experience-dependent neuroprotection and functional compensation in animal models of neurodegenerative diseases. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2011**, 35, 331-9	5.5	43
156	Enviromimetics: exploring gene environment interactions to identify therapeutic targets for brain disorders. *Expert Opinion on Therapeutic Targets*, **2007**, 11, 899-913	6.4	43
155	Gene-environment interactions, neuronal dysfunction and pathological plasticity in Huntington's disease. *Clinical and Experimental Pharmacology and Physiology*, **2005**, 32, 1007-19	3	43
154	Gut dysbiosis in Huntington's disease: associations among gut microbiota, cognitive performance and clinical outcomes. *Brain Communications*, **2020**, 2, fcaa110	4.5	41
153	Neurocardiac dysregulation and neurogenic arrhythmias in a transgenic mouse model of Huntington's disease. *Journal of Physiology*, **2012**, 590, 5845-60	3.9	40
152	Epigenetic modifications in trinucleotide repeat diseases. *Trends in Molecular Medicine*, **2013**, 19, 655-63	11.5	39
151	Search strategy selection in the Morris water maze indicates allocentric map formation during learning that underpins spatial memory formation. *Neurobiology of Learning and Memory*, **2017**, 139, 37-49	3.1	38
150	Depression-related behaviours displayed by female C57BL/6J mice during abstinence from chronic ethanol consumption are rescued by wheel-running. *European Journal of Neuroscience*, **2013**, 37, 1803-10	3.5	37
149	Decanalization, brain development and risk of schizophrenia. *Translational Psychiatry*, **2011**, 1, e14	8.6	37

148	Modeling brain reserve: experience-dependent neuronal plasticity in healthy and Huntington's disease transgenic mice. *American Journal of Geriatric Psychiatry*, **2009**, 17, 196-209	6.5	37
147	Localized changes to glycogen synthase kinase-3 and collapsin response mediator protein-2 in the Huntington's disease affected brain. *Human Molecular Genetics*, **2014**, 23, 4051-63	5.6	36
146	Hippocampal neurogenesis, cognitive deficits and affective disorder in Huntington's disease. *Neural Plasticity*, **2012**, 2012, 874387	3.3	36
145	Environmental enrichment enhances cognitive flexibility in C57BL/6 mice on a touchscreen reversal learning task. *Neuropharmacology*, **2017**, 117, 219-226	5.5	35
144	Transgenerational paternal transmission of acquired traits: Stress-induced modification of the sperm regulatory transcriptome and offspring phenotypes. *Current Opinion in Behavioral Sciences*, **2017**, 14, 140-147	4	35
143	Increased adult hippocampal neurogenesis and abnormal migration of adult-born granule neurons is associated with hippocampal-specific cognitive deficits in phospholipase C-1 knockout mice. *Hippocampus*, **2012**, 22, 309-19	3.5	35
142	Synaptopathic mechanisms of neurodegeneration and dementia: Insights from Huntington's disease. *Progress in Neurobiology*, **2017**, 153, 18-45	10.9	34
141	Differential effects of early environmental enrichment on emotionality related behaviours in Huntington's disease transgenic mice. *Journal of Physiology*, **2013**, 591, 41-55	3.9	34
140	Dissociating the therapeutic effects of environmental enrichment and exercise in a mouse model of anxiety with cognitive impairment. *Translational Psychiatry*, **2016**, 6, e794	8.6	34
139	Paternal environmental enrichment transgenerationally alters affective behavioral and neuroendocrine phenotypes. *Psychoneuroendocrinology*, **2017**, 77, 225-235	5	33
138	Gene-environment interactions informing therapeutic approaches to cognitive and affective disorders. *Neuropharmacology*, **2019**, 145, 37-48	5.5	33
137	TRPing up the genome: Tandem repeat polymorphisms as dynamic sources of genetic variability in health and disease. *Discovery Medicine*, **2010**, 10, 314-21	2.5	33
136	Effects of chronic stress on the onset and progression of Huntington's disease in transgenic mice. *Neurobiology of Disease*, **2014**, 71, 81-94	7.5	32
135	Impaired learning-dependent cortical plasticity in Huntington's disease transgenic mice. *Neurobiology of Disease*, **2004**, 17, 427-34	7.5	32
134	"Super-Enrichment" Reveals Dose-Dependent Therapeutic Effects of Environmental Stimulation in a Transgenic Mouse Model of Huntington's Disease. *Journal of Huntington's Disease*, **2014**, 3, 299-309	1.9	30
133	Expression of doublecortin correlates with neuronal migration and pattern formation in diverse regions of the developing chick brain. *Journal of Neuroscience Research*, **1999**, 55, 650-7	4.4	30
132	Long-term effects of combined neonatal and adolescent stress on brain-derived neurotrophic factor and dopamine receptor expression in the rat forebrain. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 2126-35	6.9	29
131	Retinal dysfunction, photoreceptor protein dysregulation and neuronal remodelling in the R6/1 mouse model of Huntington's disease. *Neurobiology of Disease*, **2012**, 45, 887-96	7.5	29

130	Decreased expression of mGluR5 within the dorsolateral prefrontal cortex in autism and increased microglial number in mGluR5 knockout mice: Pathophysiological and neurobehavioral implications. *Brain, Behavior, and Immunity*, **2015**, 49, 197-205	16.6	28
129	Environmental enrichment reduces neuronal intranuclear inclusion load but has no effect on messenger RNA expression in a mouse model of Huntington disease. *Journal of Neuropathology and Experimental Neurology*, **2010**, 69, 817-27	3.1	28
128	Translational Assays for Assessment of Cognition in Rodent Models of Alzheimer's Disease and Dementia. *Journal of Molecular Neuroscience*, **2016**, 60, 371-382	3.3	27
127	Cortisol and depression in pre-diagnosed and early stage Huntington's disease. *Psychoneuroendocrinology*, **2013**, 38, 2439-47	5	27
126	Identifying novel interventional strategies for psychiatric disorders: integrating genomics, 'enviromics' and gene-environment interactions in valid preclinical models. *British Journal of Pharmacology*, **2014**, 171, 4719-28	8.6	27
125	Phospholipase C beta 1 expression in the dorsolateral prefrontal cortex from patients with schizophrenia at different stages of illness. *Australian and New Zealand Journal of Psychiatry*, **2011**, 45, 140-7	2.6	27
124	N-acetylcysteine modulates glutamatergic dysfunction and depressive behavior in Huntington's disease. *Human Molecular Genetics*, **2016**, 25, 2923-2933	5.6	27
123	Mutation of Gtf2ird1 from the Williams-Beuren syndrome critical region results in facial dysplasia, motor dysfunction, and altered vocalisations. *Neurobiology of Disease*, **2012**, 45, 913-22	7.5	25
122	Deficits in spermatogenesis but not neurogenesis are alleviated by chronic testosterone therapy in R6/1 Huntington's disease mice. *Journal of Neuroendocrinology*, **2012**, 24, 341-56	3.8	25
121	The influence of the HPG axis on stress response and depressive-like behaviour in a transgenic mouse model of Huntington's disease. *Experimental Neurology*, **2015**, 263, 63-71	5.7	24
120	Pathogenic Infection in Male Mice Changes Sperm Small RNA Profiles and Transgenerationally Alters Offspring Behavior. *Cell Reports*, **2020**, 31, 107573	10.6	24
119	Cognitive endophenotypes, gene-environment interactions and experience-dependent plasticity in animal models of schizophrenia. *Biological Psychology*, **2016**, 116, 82-9	3.2	24
118	What's wrong with my mouse cage? Methodological considerations for modeling lifestyle factors and gene-environment interactions in mice. *Journal of Neuroscience Methods*, **2016**, 265, 99-108	3	24
117	High stress hormone levels accelerate the onset of memory deficits in male Huntington's disease mice. *Neurobiology of Disease*, **2014**, 69, 248-62	7.5	24
116	Impaired basal and running-induced hippocampal neurogenesis coincides with reduced Akt signaling in adult R6/1 HD mice. *Molecular and Cellular Neurosciences*, **2013**, 54, 93-107	4.8	24
115	A Tale of Two Maladies? Pathogenesis of Depression with and without the Huntington's Disease Gene Mutation. *Frontiers in Neurology*, **2013**, 4, 81	4.1	24
114	Differential induction and intracellular localization of SCG10 messenger RNA is associated with neuronal differentiation. *Neuroscience*, **1996**, 72, 889-900	3.9	23
113	Effects of environmental manipulations in genetically targeted animal models of affective disorders. *Neurobiology of Disease*, **2013**, 57, 12-27	7.5	22

112	Molecular mechanisms mediating pathological plasticity in Huntington's disease and Alzheimer's disease. *Journal of Neurochemistry*, **2007**, 100, 874-82	6	22
111	An integrated metagenomics and metabolomics approach implicates the microbiota-gut-brain axis in the pathogenesis of Huntington's disease. *Neurobiology of Disease*, **2021**, 148, 105199	7.5	22
110	Effect of enhanced voluntary physical exercise on brain levels of monoamines in Huntington disease mice. *PLOS Currents*, **2011**, 3, RRN1281		21
109	Short-term memory acquisition in female Huntington's disease mice is vulnerable to acute stress. *Behavioural Brain Research*, **2013**, 253, 318-22	3.4	20
108	Vascular endothelial growth factor and brain-derived neurotrophic factor in quetiapine treated first-episode psychosis. *Schizophrenia Research and Treatment*, **2014**, 2014, 719395	0.6	20
107	Positive environmental modification of depressive phenotype and abnormal hypothalamic-pituitary-adrenal axis activity in female C57BL/6J mice during abstinence from chronic ethanol consumption. *Frontiers in Pharmacology*, **2013**, 4, 93	5.6	20
106	Novel therapeutic targets for Huntington's disease. *Expert Opinion on Therapeutic Targets*, **2005**, 9, 639-50	3.4	20
105	Environmental enrichment reduces innate anxiety with no effect on depression-like behaviour in mice lacking the serotonin transporter. *Behavioural Brain Research*, **2017**, 332, 355-361	3.4	19
104	Diet-Induced Modification of the Sperm Epigenome Programs Metabolism and Behavior. *Trends in Endocrinology and Metabolism*, **2020**, 31, 131-149	8.8	19
103	Elevated paternal glucocorticoid exposure modifies memory retention in female offspring. *Psychoneuroendocrinology*, **2017**, 83, 9-18	5	18
102	Neuroendocrine and neurotrophic signaling in Huntington's disease: Implications for pathogenic mechanisms and treatment strategies. *Neuroscience and Biobehavioral Reviews*, **2016**, 71, 444-454	9	18
101	Affective dysfunction in a mouse model of Rett syndrome: Therapeutic effects of environmental stimulation and physical activity. *Developmental Neurobiology*, **2016**, 76, 209-24	3.2	18
100	Molecular mediators, environmental modulators and experience-dependent synaptic dysfunction in Huntington's disease.. *Acta Biochimica Polonica*, **2019**, 51, 415-430	2	18
99	Touchscreen testing reveals clinically relevant cognitive abnormalities in a mouse model of schizophrenia lacking metabotropic glutamate receptor 5. *Scientific Reports*, **2018**, 8, 16412	4.9	18
98	Beyond loss of frataxin: the complex molecular pathology of Friedreich ataxia. *Discovery Medicine*, **2014**, 17, 25-35	2.5	18
97	Dissecting cause and effect in the pathogenesis of psychiatric disorders: genes, environment and behaviour. *Current Molecular Medicine*, **2007**, 7, 470-8	2.5	17
96	Investigating the relationships between hypothalamic volume and measures of circadian rhythm and habitual sleep in premanifest Huntington's disease. *Neurobiology of Sleep and Circadian Rhythms*, **2019**, 6, 1-8	2.9	16
95	Brain Cholesterol Synthesis and Metabolism is Progressively Disturbed in the R6/1 Mouse Model of Huntington's Disease: A Targeted GC-MS/MS Sterol Analysis. *Journal of Huntington's Disease*, **2015**, 4, 305-18	1.9	16

94	Development of thalamocortical projections in normal and mutant mice. *Results and Problems in Cell Differentiation*, **2000**, 30, 293-332	1.4	16
93	Therapeutic Effects of Anthocyanins and Environmental Enrichment in R6/1 Huntington's Disease Mice. *Journal of Huntington's Disease*, **2016**, 5, 285-296	1.9	16
92	Reduced susceptibility to induced seizures in the Neuroligin-3(R451C) mouse model of autism. *Neuroscience Letters*, **2015**, 589, 57-61	3.3	15
91	Transcriptional profiles for distinct aggregation states of mutant Huntingtin exon 1 protein unmask new Huntington's disease pathways. *Molecular and Cellular Neurosciences*, **2017**, 83, 103-112	4.8	15
90	Towards environmental construct validity in animal models of CNS disorders: optimizing translation of preclinical studies. *CNS and Neurological Disorders - Drug Targets*, **2013**, 12, 587-92	2.6	15
89	Why Woody got the blues: The neurobiology of depression in Huntington's disease. *Neurobiology of Disease*, **2020**, 142, 104958	7.5	14
88	The relationship between cortisol and verbal memory in the early stages of Huntington's disease. *Journal of Neurology*, **2013**, 260, 891-902	5.5	14
87	Behavioural state differentially engages septohippocampal cholinergic and GABAergic neurons in R6/1 Huntington's disease mice. *Neurobiology of Learning and Memory*, **2012**, 97, 261-70	3.1	14
86	Decanalization mediating gene-environment interactions in schizophrenia and other psychiatric disorders with neurodevelopmental etiology. *Frontiers in Behavioral Neuroscience*, **2013**, 7, 157	3.5	14
85	Isoform specific differences in phospholipase C beta 1 expression in the prefrontal cortex in schizophrenia and suicide. *NPJ Schizophrenia*, **2017**, 3, 19	5.5	13
84	Impaired social behaviour and molecular mediators of associated neural circuits during chronic Toxoplasma gondii infection in female mice. *Brain, Behavior, and Immunity*, **2019**, 80, 88-108	16.6	13
83	Neurological, neuropsychiatric and neurodevelopmental complications of COVID-19. *Australian and New Zealand Journal of Psychiatry*, **2021**, 55, 750-762	2.6	13
82	Environmental enrichment as an experience-dependent modulator of social plasticity and cognition. *Brain Research*, **2019**, 1717, 1-14	3.7	12
81	Tissue-type plasminogen activator is an extracellular mediator of Purkinje cell damage and altered gait. *Experimental Neurology*, **2013**, 249, 8-19	5.7	12
80	Exercise mimetics: harnessing the therapeutic effects of physical activity. *Nature Reviews Drug Discovery*, **2021**, 20, 862-879	64.1	12
79	Novel approaches to alcohol rehabilitation: Modification of stress-responsive brain regions through environmental enrichment. *Neuropharmacology*, **2019**, 145, 25-36	5.5	12
78	Transgenic Mouse Models as Tools for Understanding How Increased Cognitive and Physical Stimulation Can Improve Cognition in Alzheimer's Disease. *Brain Plasticity*, **2018**, 4, 127-150	3.5	12
77	Short-term environmental enrichment, and not physical exercise, alleviate cognitive decline and anxiety from middle age onwards without affecting hippocampal gene expression. *Cognitive, Affective and Behavioral Neuroscience*, **2019**, 19, 1143-1169	3.5	11

76	Social Isolation Alters Social and Mating Behavior in the R451C Neuroligin Mouse Model of Autism. *Neural Plasticity*, **2017**, 2017, 8361290	3.3	11
75	Evaluation of attention in APP/PS1 mice shows impulsive and compulsive behaviours. *Genes, Brain and Behavior*, **2021**, 20, e12594	3.6	11
74	Effects of aging on the motor, cognitive and affective behaviors, neuroimmune responses and hippocampal gene expression. *Behavioural Brain Research*, **2020**, 383, 112501	3.4	10
73	Sensitivity to MK-801 in phospholipase C-β1 knockout mice reveals a specific NMDA receptor deficit. *International Journal of Neuropsychopharmacology*, **2009**, 12, 917-28	5.8	10
72	The latent stem cell population is retained in the hippocampus of transgenic Huntington's disease mice but not wild-type mice. *PLoS ONE*, **2011**, 6, e18153	3.7	10
71	Antidepressant-Like Effect of the Norepinephrine-Dopamine Reuptake Inhibitor Bupropion in a Mouse Model of Huntington's Disease with Dopaminergic Dysfunction. *Journal of Huntington's Disease*, **2012**, 1, 261-6	1.9	10
70	Microbiome Profiling Reveals Gut Dysbiosis in the Metabotropic Glutamate Receptor 5 Knockout Mouse Model of Schizophrenia. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 582320	5.7	10
69	Mutations in neuroligin-3 in male mice impact behavioral flexibility but not relational memory in a touchscreen test of visual transitive inference. *Molecular Autism*, **2019**, 10, 42	6.5	10
68	Tandem repeat polymorphisms: Mediators of genetic plasticity, modulators of biological diversity and dynamic sources of disease susceptibility. *Advances in Experimental Medicine and Biology*, **2012**, 769, 1-9	3.6	10
67	The effects of short-term and long-term environmental enrichment on locomotion, mood-like behavior, cognition and hippocampal gene expression. *Behavioural Brain Research*, **2019**, 368, 111917	3.4	9
66	Synaptopathy, circuitopathy and the computational biology of Huntington's disease. *BMC Biology*, **2018**, 16, 71	7.3	9
65	Sexually dimorphic dopaminergic dysfunction in a transgenic mouse model of Huntington's disease. *Pharmacology Biochemistry and Behavior*, **2014**, 127, 15-20	3.9	9
64	Environmental enrichment modulates affiliative and aggressive social behaviour in the neuroligin-3 R451C mouse model of autism spectrum disorder. *Pharmacology Biochemistry and Behavior*, **2020**, 195, 172955	3.9	8
63	Short-Term Environmental Stimulation Spatiotemporally Modulates Specific Serotonin Receptor Gene Expression and Behavioral Pharmacology in a Sexually Dimorphic Manner in Huntington's Disease Transgenic Mice. *Frontiers in Molecular Neuroscience*, **2018**, 11, 433	6.1	8
62	Novel ethological endophenotypes in a transgenic mouse model of Huntington's disease. *Behavioural Brain Research*, **2015**, 276, 17-27	3.4	7
61	Ethological endophenotypes are altered by elevated stress hormone levels in both Huntington's disease and wildtype mice. *Behavioural Brain Research*, **2014**, 274, 118-27	3.4	7
60	Translating preclinical environmental enrichment studies for the treatment of autism and other brain disorders: comment on Woo and Leon (2013). *Behavioral Neuroscience*, **2013**, 127, 606-9	2.1	7
59	Brain Zinc Deficiency Exacerbates Cognitive Decline in the R6/1 Model of Huntington's Disease. *Neurotherapeutics*, **2020**, 17, 243-251	6.4	7

58	Duration of Environmental Enrichment Determines Astrocyte Number and Cervical Lymph Node T Lymphocyte Proportions but Not the Microglial Number in Middle-Aged C57BL/6 Mice. *Frontiers in Cellular Neuroscience*, **2020**, 14, 57	6.1	7
57	Tandem Repeats and Repeatomes: Delving Deeper into the "Dark Matter" of Genomes. *EBioMedicine*, **2018**, 31, 3-4	8.8	7
56	Of "junk food" and "brain food": how parental diet influences offspring neurobiology and behaviour. *Trends in Endocrinology and Metabolism*, **2021**, 32, 566-578	8.8	7
55	Tandem Repeat Polymorphisms. *Advances in Experimental Medicine and Biology*, **2012**, 1-9	3.6	6
54	Metabotropic glutamate receptors as targets for novel antipsychotic treatments. *Current Pharmaceutical Biotechnology*, **2012**, 13, 1522-34	2.6	6
53	Role of muscarinic receptors in the activity of N-desmethylclozapine: reversal of hyperactivity in the phospholipase C knockout mouse. *Behavioural Pharmacology*, **2008**, 19, 543-7	2.4	6
52	Brain phylogeny, ontogeny and dysfunction: integrating evolutionary, developmental and clinical perspectives in cognitive neuroscience. *Acta Neuropsychiatrica*, **2007**, 19, 149-58	3.9	6
51	Limitations to intergenerational inheritance: subchronic paternal stress preconception does not influence offspring anxiety. *Scientific Reports*, **2020**, 10, 16050	4.9	6
50	A Neuroethics Framework for the Australian Brain Initiative. *Neuron*, **2019**, 101, 365-369	13.9	5
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