

Richard D Palmiter

List of Publications by Citations

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114
papers

21,817
citations

63
h-index

141
g-index

141
ext. papers

25,291
ext. citations

21.7
avg, IF

6.89
L-index

#	Paper	IF	Citations
114	A robust and high-throughput Cre reporting and characterization system for the whole mouse brain. <i>Nature Neuroscience</i> , 2010 , 13, 133-40	25.5	3764
113	Leptin-regulated endocannabinoids are involved in maintaining food intake. <i>Nature</i> , 2001 , 410, 822-5	50.4	1310
112	Dramatic growth of mice that develop from eggs microinjected with metallothionein-growth hormone fusion genes. <i>Nature</i> , 1982 , 300, 611-5	50.4	1107
111	Sensitivity to leptin and susceptibility to seizures of mice lacking neuropeptide Y. <i>Nature</i> , 1996 , 381, 415-21	50.4	909
110	Production of transgenic rabbits, sheep and pigs by microinjection. <i>Nature</i> , 1985 , 315, 680-3	50.4	836
109	NPY/AgRP neurons are essential for feeding in adult mice but can be ablated in neonates. <i>Science</i> , 2005 , 310, 683-5	33.3	824
108	Eosinophils and type 2 cytokine signaling in macrophages orchestrate development of functional beige fat. <i>Cell</i> , 2014 , 157, 1292-1308	56.2	587
107	Late endosomal membranes rich in lysobisphosphatidic acid regulate cholesterol transport. <i>Nature Cell Biology</i> , 1999 , 1, 113-8	23.4	520
106	Noradrenaline is essential for mouse fetal development. <i>Nature</i> , 1995 , 374, 643-6	50.4	446
105	Ethanol consumption and resistance are inversely related to neuropeptide Y levels. <i>Nature</i> , 1998 , 396, 366-9	50.4	413
104	Growth enhancement of transgenic mice expressing human insulin-like growth factor I. <i>Endocrinology</i> , 1988 , 123, 2827-33	4.8	396
103	Genetic identification of a neural circuit that suppresses appetite. <i>Nature</i> , 2013 , 503, 111-4	50.4	375
102	Role of the Y5 neuropeptide Y receptor in feeding and obesity. <i>Nature Medicine</i> , 1998 , 4, 718-21	50.5	373
101	Targeted disruption of the tyrosine hydroxylase gene reveals that catecholamines are required for mouse fetal development. <i>Nature</i> , 1995 , 374, 640-3	50.4	373
100	Abnormal sexual development in transgenic mice chronically expressing mllerian inhibiting substance. <i>Nature</i> , 1990 , 345, 167-70	50.4	361
99	Is dopamine a physiologically relevant mediator of feeding behavior?. <i>Trends in Neurosciences</i> , 2007 , 30, 375-81	13.3	345
98	Identification of multiple metal regulatory elements in mouse metallothionein-I promoter by assaying synthetic sequences. <i>Nature</i> , 1985 , 317, 828-31	50.4	338

97	Loss of GABAergic signaling by AgRP neurons to the parabrachial nucleus leads to starvation. <i>Cell</i> , 2009 , 137, 1225-34	56.2	331
96	Efflux and compartmentalization of zinc by members of the SLC30 family of solute carriers. <i>Pflugers Archiv European Journal of Physiology</i> , 2004 , 447, 744-51	4.6	307
95	Structure of mouse metallothionein-I gene and its mRNA. <i>Nature</i> , 1981 , 292, 267-9	50.4	289
94	The paraventricular thalamus controls a central amygdala fear circuit. <i>Nature</i> , 2015 , 519, 455-9	50.4	286
93	Genetically haploid spermatids are phenotypically diploid. <i>Nature</i> , 1989 , 337, 373-6	50.4	286
92	Vesicular glutamate transport promotes dopamine storage and glutamate corelease in vivo. <i>Neuron</i> , 2010 , 65, 643-56	13.9	282
91	Transcriptional regulation of mouse liver metallothionein-I gene by glucocorticoids. <i>Nature</i> , 1981 , 291, 340-2	50.4	274
90	Regulation of metallothionein--thymidine kinase fusion plasmids injected into mouse eggs. <i>Nature</i> , 1982 , 296, 39-42	50.4	271
89	Dopamine signaling in the dorsal striatum is essential for motivated behaviors: lessons from dopamine-deficient mice. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1129, 35-46	6.5	258
88	Specific expression of an elastase-human growth hormone fusion gene in pancreatic acinar cells of transgenic mice. <i>Nature</i> , 1985 , 313, 600-2	50.4	240
87	SV40 enhancer and large-T antigen are instrumental in development of choroid plexus tumours in transgenic mice. <i>Nature</i> , 1985 , 316, 457-60	50.4	232
86	Antigen presenting function of class II MHC expressing pancreatic beta cells. <i>Nature</i> , 1988 , 336, 476-9	50.4	229
85	Thermoregulatory and metabolic phenotypes of mice lacking noradrenaline and adrenaline. <i>Nature</i> , 1997 , 387, 94-7	50.4	223
84	Elucidating an Affective Pain Circuit that Creates a Threat Memory. <i>Cell</i> , 2015 , 162, 363-374	56.2	220
83	Histopathology associated with elevated levels of growth hormone and insulin-like growth factor I in transgenic mice. <i>Endocrinology</i> , 1989 , 124, 40-8	4.8	214
82	Peripheral tolerance to an islet cell-specific hemagglutinin transgene affects both CD4+ and CD8+ T cells. <i>European Journal of Immunology</i> , 1992 , 22, 1013-22	6.1	202
81	Transgenic mice overexpressing the mouse homoeobox-containing gene Hox-1.4 exhibit abnormal gut development. <i>Nature</i> , 1989 , 337, 464-7	50.4	191
80	The Parabrachial Nucleus: CGRP Neurons Function as a General Alarm. <i>Trends in Neurosciences</i> , 2018 , 41, 280-293	13.3	151

79	Protection against zinc toxicity by metallothionein and zinc transporter 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 4918-23	11.5	148
78	Agouti-related peptide neural circuits mediate adaptive behaviors in the starved state. <i>Nature Neuroscience</i> , 2016 , 19, 734-741	25.5	146
77	Peripheral neuropathies, hepatocellular carcinomas and islet cell adenomas in transgenic mice. <i>Nature</i> , 1985 , 316, 461-3	50.4	132
76	Parabrachial CGRP Neurons Control Meal Termination. <i>Cell Metabolism</i> , 2016 , 23, 811-20	24.6	132
75	Zinc transporter ZnT-3 regulates presynaptic Erk1/2 signaling and hippocampus-dependent memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3366-70	11.5	128
74	Encoding of danger by parabrachial CGRP neurons. <i>Nature</i> , 2018 , 555, 617-622	50.4	124
73	Genetically and functionally defined NTS to PBN brain circuits mediating anorexia. <i>Nature Communications</i> , 2016 , 7, 11905	17.4	124
72	Dopamine is required for hyperphagia in Lep(ob/ob) mice. <i>Nature Genetics</i> , 2000 , 25, 102-4	36.3	124
71	AgRP to Kiss1 neuron signaling links nutritional state and fertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2413-2418	11.5	122
70	Hair cell replacement in adult mouse utricles after targeted ablation of hair cells with diphtheria toxin. <i>Journal of Neuroscience</i> , 2012 , 32, 15093-105	6.6	117
69	A murine model of Menkes disease reveals a physiological function of metallothionein. <i>Nature Genetics</i> , 1996 , 13, 219-22	36.3	113
68	Activity of Raphe Serotonergic Neurons Controls Emotional Behaviors. <i>Cell Reports</i> , 2015 , 13, 1965-76	10.6	110
67	High-frequency stimulation-induced peptide release synchronizes arcuate kisspeptin neurons and excites GnRH neurons. <i>ELife</i> , 2016 , 5,	8.9	107
66	Two Pairs of ON and OFF Retinal Ganglion Cells Are Defined by Intersectional Patterns of Transcription Factor Expression. <i>Cell Reports</i> , 2016 , 15, 1930-44	10.6	105
65	Molecular properties of Kiss1 neurons in the arcuate nucleus of the mouse. <i>Endocrinology</i> , 2011 , 152, 4298-309	4.8	102
64	A Central Amygdala CRF Circuit Facilitates Learning about Weak Threats. <i>Neuron</i> , 2017 , 93, 164-178	13.9	98
63	Palatability Can Drive Feeding Independent of AgRP Neurons. <i>Cell Metabolism</i> , 2015 , 22, 646-57	24.6	98
62	Parabrachial calcitonin gene-related peptide neurons mediate conditioned taste aversion. <i>Journal of Neuroscience</i> , 2015 , 35, 4582-6	6.6	97

61	Detecting and Avoiding Problems When Using the Cre-lox System. <i>Trends in Genetics</i> , 2018 , 34, 333-340	8.5	96
60	Infertility in male transgenic mice: disruption of sperm development by HSV-tk expression in postmeiotic germ cells. <i>Biology of Reproduction</i> , 1990 , 43, 684-93	3.9	93
59	Ablation of neurons expressing agouti-related protein, but not melanin concentrating hormone, in leptin-deficient mice restores metabolic functions and fertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3155-60	11.5	84
58	Lack of GPR88 enhances medium spiny neuron activity and alters motor- and cue-dependent behaviors. <i>Nature Neuroscience</i> , 2012 , 15, 1547-55	25.5	82
57	Dopamine receptor 1 neurons in the dorsal striatum regulate food anticipatory circadian activity rhythms in mice. <i>ELife</i> , 2014 , 3, e03781	8.9	72
56	Expression of mouse IgA by transgenic mice, pigs and sheep. <i>European Journal of Immunology</i> , 1991 , 21, 1001-6	6.1	70
55	Fatal breathing dysfunction in a mouse model of Leigh syndrome. <i>Journal of Clinical Investigation</i> , 2012 , 122, 2359-68	15.9	70
54	Optogenetic Stimulation of Arcuate Nucleus Kiss1 Neurons Reveals a Steroid-Dependent Glutamatergic Input to POMC and AgRP Neurons in Male Mice. <i>Molecular Endocrinology</i> , 2016 , 30, 630-44		67
53	Fertility-regulating Kiss1 neurons arise from hypothalamic POMC-expressing progenitors. <i>Journal of Neuroscience</i> , 2015 , 35, 5549-56	6.6	65
52	Production of transgenic sheep with growth-regulating genes. <i>Molecular Reproduction and Development</i> , 1989 , 1, 164-9	2.6	65
51	Cancer-induced anorexia and malaise are mediated by CGRP neurons in the parabrachial nucleus. <i>Nature Neuroscience</i> , 2017 , 20, 934-942	25.5	59
50	Viral restoration of dopamine signaling to the dorsal striatum restores instrumental conditioning to dopamine-deficient mice. <i>Psychopharmacology</i> , 2007 , 191, 567-78	4.7	55
49	Oxytocin-receptor-expressing neurons in the parabrachial nucleus regulate fluid intake. <i>Nature Neuroscience</i> , 2017 , 20, 1722-1733	25.5	52
48	Kisspeptin Neurons in the Arcuate Nucleus of the Hypothalamus Orchestrate Circadian Rhythms and Metabolism. <i>Current Biology</i> , 2019 , 29, 592-604.e4	6.3	50
47	A Neural Circuit Underlying the Generation of Hot Flushes. <i>Cell Reports</i> , 2018 , 24, 271-277	10.6	49
46	Parabrachial CGRP Neurons Establish and Sustain Aversive Taste Memories. <i>Neuron</i> , 2018 , 100, 891-899.e5	15.9	46
45	HSD2 neurons in the hindbrain drive sodium appetite. <i>Nature Neuroscience</i> , 2017 , 20, 167-169	25.5	45
44	Selective deletion of cochlear hair cells causes rapid age-dependent changes in spiral ganglion and cochlear nucleus neurons. <i>Journal of Neuroscience</i> , 2015 , 35, 7878-91	6.6	45

43	Synergy of Distinct Dopamine Projection Populations in Behavioral Reinforcement. <i>Neuron</i> , 2020 , 105, 909-920.e5	13.9	43
42	Estrogenic-dependent glutamatergic neurotransmission from kisspeptin neurons governs feeding circuits in females. <i>ELife</i> , 2018 , 7,	8.9	39
41	New inducible genetic method reveals critical roles of GABA in the control of feeding and metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3645-50	11.5	38
40	Genetic rescue of CB1 receptors on medium spiny neurons prevents loss of excitatory striatal synapses but not motor impairment in HD mice. <i>Neurobiology of Disease</i> , 2014 , 71, 140-50	7.5	38
39	Testis-specific and ubiquitous proteins bind to functionally important regions of the mouse protamine-1 promoter. <i>Biology of Reproduction</i> , 1994 , 50, 65-72	3.9	36
38	Ablation of Type III Adenylyl Cyclase in Mice Causes Reduced Neuronal Activity, Altered Sleep Pattern, and Depression-like Phenotypes. <i>Biological Psychiatry</i> , 2016 , 80, 836-848	7.9	34
37	A tale of two circuits: CCK neuron stimulation controls appetite and induces opposing motivational states by projections to distinct brain regions. <i>Neuroscience</i> , 2017 , 358, 316-324	3.9	32
36	Contributions of signaling by dopamine neurons in dorsal striatum to cognitive behaviors corresponding to those observed in Parkinson's disease. <i>Neurobiology of Disease</i> , 2014 , 65, 112-23	7.5	32
35	Conditional deletion of Ndufs4 in dopaminergic neurons promotes Parkinson's disease-like non-motor symptoms without loss of dopamine neurons. <i>Scientific Reports</i> , 2017 , 7, 44989	4.9	29
34	Activation of α -AMPK Suppresses Ribosome Biogenesis and Protects Against Myocardial Ischemia/Reperfusion Injury. <i>Circulation Research</i> , 2017 , 121, 1182-1191	15.7	29
33	Succination is Increased on Select Proteins in the Brainstem of the NADH dehydrogenase (ubiquinone) Fe-S protein 4 (Ndufs4) Knockout Mouse, a Model of Leigh Syndrome. <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 445-61	7.6	28
32	Expression of an avian protamine in transgenic mice disrupts chromatin structure in spermatozoa. <i>Biology of Reproduction</i> , 1995 , 52, 20-32	3.9	27
31	Pulmonary carcinogenesis in transgenic mice. <i>Experimental Lung Research</i> , 1991 , 17, 305-20	2.3	27
30	Oncogenesis and altered differentiation induced by activated Ras in neuroblasts of transgenic mice. <i>Oncogene</i> , 1997 , 15, 2783-94	9.2	26
29	An Excitatory Circuit in the Periocolomotor Midbrain for Non-REM Sleep Control. <i>Cell</i> , 2019 , 177, 1293-1307.e164	36.2	164
28	Genetic reduction of mitochondrial complex I function does not lead to loss of dopamine neurons in vivo. <i>Neurobiology of Aging</i> , 2015 , 36, 2617-27	5.6	22
27	Kappa opioid receptor and dynorphin signaling in the central amygdala regulates alcohol intake. <i>Molecular Psychiatry</i> , 2021 , 26, 2187-2199	15.1	20
26	Transgenic mouse blastocysts that overexpress metallothionein-I resist cadmium toxicity in vitro. <i>Molecular Reproduction and Development</i> , 1996 , 43, 158-66	2.6	16

25	NKB signaling in the posterodorsal medial amygdala stimulates gonadotropin release in a kisspeptin-independent manner in female mice. <i>ELife</i> , 2018 , 7,	8.9	15
24	Dissociable control of unconditioned responses and associative fear learning by parabrachial CGRP neurons. <i>ELife</i> , 2020 , 9,	8.9	15
23	Loss of glutamate signaling from the thalamus to dorsal striatum impairs motor function and slows the execution of learned behaviors. <i>Npj Parkinsons Disease</i> , 2018 , 4, 23	9.7	13
22	Intercalated amygdala clusters orchestrate a switch in fear state. <i>Nature</i> , 2021 , 594, 403-407	50.4	13
21	GFRAL-expressing neurons suppress food intake via aversive pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	13
20	Loss of Mitochondrial in Striatal Medium Spiny Neurons Mediates Progressive Motor Impairment in a Mouse Model of Leigh Syndrome. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 265	6.1	12
19	Antigen presentation in MHC class II transgenic mice: stimulation versus tolerization. <i>Immunological Reviews</i> , 1990 , 117, 121-34	11.3	12
18	Organ-specific, multimodal, wireless optoelectronics for high-throughput phenotyping of peripheral neural pathways. <i>Nature Communications</i> , 2021 , 12, 157	17.4	12
17	Relative contributions of severe dopaminergic neuron ablation and dopamine depletion to cognitive impairment. <i>Experimental Neurology</i> , 2015 , 271, 205-14	5.7	11
16	Striatal GPR88 Modulates Foraging Efficiency. <i>Journal of Neuroscience</i> , 2017 , 37, 7939-7947	6.6	11
15	Reciprocal control of obesity and anxiety-depressive disorder via a GABA and serotonin neural circuit. <i>Molecular Psychiatry</i> , 2021 , 26, 2837-2853	15.1	11
14	Cold-induced hyperphagia requires AgRP neuron activation in mice. <i>ELife</i> , 2020 , 9,	8.9	10
13	Interleukin-6 Derived from the Central Nervous System May Influence the Pathogenesis of Experimental Autoimmune Encephalomyelitis in a Cell-Dependent Manner. <i>Cells</i> , 2020 , 9,	7.9	8
12	Chronic G signaling in AgRP neurons does not cause obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 20874-20880	11.5	7
11	Neural Circuits That Suppress Appetite: Targets for Treating Obesity?. <i>Obesity</i> , 2017 , 25, 1299-1301	8	5
10	Satb2 neurons in the parabrachial nucleus mediate taste perception. <i>Nature Communications</i> , 2021 , 12, 224	17.4	5
9	Hunger logic. <i>Nature Neuroscience</i> , 2015 , 18, 789-91	25.5	4
8	New game for hunger neurons. <i>Nature Neuroscience</i> , 2012 , 15, 1060-1	25.5	4

7	Reduced levels of neurotransmitter-degrading enzyme PRCP promote a lean phenotype. [corrected]. <i>Journal of Clinical Investigation</i> , 2009 , 119, 2130-3	15.9	4
6	Fast-acting neurons that suppress appetite. <i>Nature Neuroscience</i> , 2016 , 20, 2-4	25.5	3
5	Norepinephrine-Deficient Mice Exhibit Normal Sleep-Wake States but have Shorter Sleep Latency after Mild Stress and Low Doses of Amphetamine. <i>Sleep</i> , 2003 ,	1.1	2
4	Expression of Growth Hormone Genes in Transgenic Mice 1985 , 20, 123-132		1
3	Activation of Kiss1 neurons in the preoptic hypothalamus stimulates testosterone synthesis in adult male mice		1
2	A new mouse model to study restoration of interleukin-6 (IL-6) expression in a Cre-dependent manner: microglial IL-6 regulation of experimental autoimmune encephalomyelitis. <i>Journal of Neuroinflammation</i> , 2020 , 17, 304	10.1	0
1	A Transgenic Mouse Model for Human Sickle Cell Disease. <i>Proceedings of the Japanese Association of Animal Models for Human Diseases</i> , 1990 , 6, 6-12		