

# Richard Dyck

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3953947/publications.pdf>

Version: 2024-02-01

83  
papers

3,776  
citations

126708

33  
h-index

133063

59  
g-index

91  
all docs

91  
docs citations

91  
times ranked

4674  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sequential phases of cortical specification involve Neurogenin-dependent and -independent pathways. EMBO Journal, 2004, 23, 2892-2902.	3.5	355
2	Place navigation by rats in a swimming pool.. Canadian Journal of Psychology, 1984, 38, 322-347.	0.8	188
3	Characterization of the 3xTg-AD mouse model of Alzheimer's disease: Part 2. Behavioral and cognitive changes. Brain Research, 2010, 1348, 149-155.	1.1	182
4	Zinc and cortical plasticity. Brain Research Reviews, 2009, 59, 347-373.	9.1	162
5	Development, critical period plasticity, and adult reorganizations of mammalian somatosensory systems. Current Opinion in Neurobiology, 1994, 4, 535-544.	2.0	161
6	Characterization of the 3xTg-AD mouse model of Alzheimer's disease: Part 1. Circadian changes. Brain Research, 2010, 1348, 139-148.	1.1	161
7	Enrichment of glutamate in zinc-containing terminals of the cat visual cortex. NeuroReport, 1992, 3, 861-864.	0.6	131
8	Slow progressive degeneration of nigral dopaminergic neurons in postnatal Engrailed mutant mice. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15242-15247.	3.3	129
9	Zinc transporter 3 (ZnT3) and vesicular zinc in central nervous system function. Neuroscience and Biobehavioral Reviews, 2017, 80, 329-350.	2.9	122
10	The Dalila effect: C57BL6 mice barber whiskers by plucking. Behavioural Brain Research, 2000, 108, 39-45.	1.2	116
11	Autoradiographic localization of serotonin receptor subtypes in cat visual cortex: transient regional, laminar, and columnar distributions during postnatal development. Journal of Neuroscience, 1993, 13, 4316-4338.	1.7	81
12	The Role of Zinc in Cerebral Ischemia. Molecular Medicine, 2007, 13, 380-387.	1.9	81
13	Efficacy and Safety Evaluation of Human Reovirus Type 3 in Immunocompetent Animals. Clinical Cancer Research, 2004, 10, 8561-8576.	3.2	78
14	Generation and Analysis of GluR5(Q636R) Kainate Receptor Mutant Mice. Journal of Neuroscience, 1999, 19, 8757-8764.	1.7	68
15	Immunohistochemical localization of the S-100 $\beta$ protein in postnatal cat visual cortex: spatial and temporal patterns of expression in cortical and subcortical glia. Developmental Brain Research, 1993, 72, 181-192.	2.1	65
16	Distribution of zincergic neurons in the mouse forebrain. Journal of Comparative Neurology, 2004, 479, 156-167.	0.9	65
17	Columnar distribution of serotonin-dependent plasticity within kitten striate cortex. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 1841-1844.	3.3	62
18	Histochemical localization of synaptic zinc in the developing cat visual cortex. Journal of Comparative Neurology, 1993, 329, 53-67.	0.9	60

#	ARTICLE	IF	CITATIONS
19	Rapid, Experience-Dependent Changes in Levels of Synaptic Zinc in Primary Somatosensory Cortex of the Adult Mouse. <i>Journal of Neuroscience</i> , 2002, 22, 2617-2625.	1.7	60
20	Novel, whisker-dependent texture discrimination task for mice. <i>Behavioural Brain Research</i> , 2013, 237, 238-242.	1.2	60
21	An interdigitated columnar mosaic of cytochrome oxidase, zinc, and neurotransmitter-related molecules in cat and monkey visual cortex.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 9066-9069.	3.3	58
22	Behavioural outcomes of perinatal maternal fluoxetine treatment. <i>Neuroscience</i> , 2012, 226, 356-366.	1.1	58
23	Effects of maternal stress and perinatal fluoxetine exposure on behavioral outcomes of adult male offspring. <i>Neuroscience</i> , 2016, 320, 281-296.	1.1	57
24	Proteinase-Activated Receptor-2 Exerts Protective and Pathogenic Cell Type-Specific Effects in Alzheimer's Disease. <i>Journal of Immunology</i> , 2007, 179, 5493-5503.	0.4	53
25	Enhanced epileptogenesis in S100B knockout mice. <i>Molecular Brain Research</i> , 2002, 106, 22-29.	2.5	49
26	Predictors of caregiver depression and family functioning after perinatal stroke. <i>BMC Pediatrics</i> , 2015, 15, 75.	0.7	49
27	Parent and family impact of raising a child with perinatal stroke. <i>BMC Pediatrics</i> , 2014, 14, 182.	0.7	48
28	Increased Aggression, Improved Spatial Memory, and Reduced Anxiety-Like Behaviour in Adult Male Mice Exposed to Fluoxetine Early in Life. <i>Developmental Neuroscience</i> , 2014, 36, 396-408.	1.0	47
29	Reovirus as an experimental therapeutic for brain and leptomeningeal metastases from breast cancer. <i>Gene Therapy</i> , 2004, 11, 1579-1589.	2.3	45
30	The neuregulin receptor, ErbB4, is not required for normal development and adult maintenance of the substantia nigra pars compacta. <i>Journal of Neurochemistry</i> , 2004, 91, 1302-1311.	2.1	44
31	Long-Term Outcomes of Developmental Exposure to Fluoxetine: A Review of the Animal Literature. <i>Developmental Neuroscience</i> , 2013, 35, 437-449.	1.0	44
32	Relationship Between Membrane Potential Oscillations and Rhythmic Discharges in Identified Hippocampal Theta-Related Cells. <i>Journal of Neurophysiology</i> , 2002, 88, 3046-3066.	0.9	42
33	Disrupted tonotopy of the auditory cortex in mice lacking M1 muscarinic acetylcholine receptor. <i>Hearing Research</i> , 2005, 201, 145-155.	0.9	40
34	<i>Neurog2</i> and <i>Ascl1</i> together regulate a postmitotic derepression circuit to govern laminar fate specification in the murine neocortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4934-E4943.	3.3	34
35	Experience-dependent Regulation of the Zincergic Innervation of Visual Cortex in Adult Monkeys. <i>Cerebral Cortex</i> , 2003, 13, 1094-1109.	1.6	32
36	Object/Context Specific Memory Deficits following Medial Frontal Cortex Damage in Mice. <i>PLoS ONE</i> , 2012, 7, e43698.	1.1	32

#	ARTICLE	IF	CITATIONS
37	Survival of Adult Generated Hippocampal Neurons Is Altered in Circadian Arrhythmic Mice. PLoS ONE, 2014, 9, e99527.	1.1	32
38	Antigenic compartmentation of the cat cerebellar cortex. Brain Research, 2003, 977, 1-15.	1.1	31
39	Induction of Reproducible Focal Ischemic Lesions in Neonatal Mice by Photothrombosis. Developmental Neuroscience, 2005, 27, 121-126.	1.0	30
40	Heterogeneity among hippocampal pyramidal neurons revealed by their relation to theta-band oscillation and synchrony. Experimental Neurology, 2005, 195, 458-474.	2.0	29
41	Experience-dependent regulation of synaptic zinc is impaired in the cortex of aged mice. Neuroscience, 2003, 119, 795-801.	1.1	27
42	Modulation of synaptic zinc in barrel cortex by whisker stimulation. Neuroscience, 2005, 134, 355-359.	1.1	27
43	Signaling by Synaptic Zinc is Required for Whisker-Mediated, Fine Texture Discrimination. Neuroscience, 2018, 369, 242-247.	1.1	27
44	The correlation between cortical neuron maturation and neurofilament phosphorylation: a developmental study of phosphorylated 200 kDa neurofilament protein in cat visual cortex. Developmental Brain Research, 1994, 81, 151-161.	2.1	26
45	Behavioral characterization of female zinc transporter 3 (ZnT3) knockout mice. Behavioural Brain Research, 2017, 321, 36-49.	1.2	25
46	Behavioural outcomes of adult female offspring following maternal stress and perinatal fluoxetine exposure. Behavioural Brain Research, 2017, 331, 84-91.	1.2	24
47	Cloning and Cortical Expression of Rat Emx2 and Adenovirus-mediated Overexpression to Assess its Regulation of Area-specific Targeting of Thalamocortical Axons. Cerebral Cortex, 2003, 13, 648-660.	1.6	21
48	Retrograde tracing of the subset of afferent connections in mouse barrel cortex provided by zincergic neurons. Journal of Comparative Neurology, 2005, 486, 48-60.	0.9	21
49	Mice lacking the transcription factor SHOX2 display impaired cerebellar development and deficits in motor coordination. Developmental Biology, 2015, 399, 54-67.	0.9	18
50	Dynamic, experience-dependent modulation of synaptic zinc within the excitatory synapses of the mouse barrel cortex. Neuroscience, 2010, 170, 1015-1019.	1.1	17
51	Circadian behavior of adult mice exposed to stress and fluoxetine during development. Psychopharmacology, 2017, 234, 793-804.	1.5	17
52	The effects of perinatal fluoxetine treatment on the circadian system of the adult mouse. Psychopharmacology, 2013, 225, 743-751.	1.5	16
53	Altered zincergic innervation of the developing primary somatosensory cortex in monoamine oxidase-A knockout mice. Developmental Brain Research, 2003, 142, 19-29.	2.1	15
54	MAOA knockout mice are more susceptible to seizures but show reduced epileptogenesis. Epilepsy Research, 2004, 59, 25-34.	0.8	14

#	ARTICLE	IF	CITATIONS
55	Syntaxin 1A is required for normal in utero development. <i>Biochemical and Biophysical Research Communications</i> , 2008, 375, 372-377.	1.0	14
56	Experience-dependent regulation of vesicular zinc in male and female 3xTg-AD mice. <i>Neurobiology of Aging</i> , 2010, 31, 605-613.	1.5	14
57	Elimination of vesicular zinc alters the behavioural and neuroanatomical effects of social defeat stress in mice. <i>Neurobiology of Stress</i> , 2018, 9, 199-213.	1.9	14
58	Comparative potency of tactile, auditory, and visual stimulus repetition in eliciting activated forebrain EEG in the rabbit. <i>Behavioral Neuroscience</i> , 1984, 98, 333-344.	0.6	13
59	An improved method for visualizing the cell bodies of zincergic neurons. <i>Journal of Neuroscience Methods</i> , 2003, 129, 41-47.	1.3	13
60	Enhanced Plasticity in Zincergic, Cortical Circuits after Exposure to Enriched Environments. <i>Journal of Neuroscience</i> , 2008, 28, 13995-13999.	1.7	13
61	The effects of chronic fluoxetine treatment following injury of medial frontal cortex in mice. <i>Behavioural Brain Research</i> , 2015, 290, 102-116.	1.2	13
62	Intracellular recording and labeling of neurons in midline structures of the rat brain in vivo using sharp electrodes. <i>Journal of Neuroscience Methods</i> , 2003, 127, 85-93.	1.3	12
63	Effects of social defeat stress and fluoxetine treatment on neurogenesis and behavior in mice that lack zinc transporter 3 (ZnT3) and vesicular zinc. <i>Hippocampus</i> , 2020, 30, 623-637.	0.9	12
64	Developmental distribution of calretinin in mouse barrel cortex. <i>Developmental Brain Research</i> , 2003, 143, 111-114.	2.1	11
65	Zincergic innervation of the forebrain distinguishes epilepsy-prone from epilepsy-resistant rat strains. <i>Neuroscience</i> , 2007, 144, 1409-1414.	1.1	11
66	Alterations in protein and gene expression within the barrel cortices of ZnT3 knockout mice: Experience-independent and dependent changes. <i>Neurochemistry International</i> , 2011, 59, 860-870.	1.9	11
67	Larger cortical motor maps after seizures. <i>European Journal of Neuroscience</i> , 2011, 34, 615-621.	1.2	11
68	Effects of lighting condition on circadian behavior in 5-HT1A receptor knockout mice. <i>Physiology and Behavior</i> , 2015, 139, 136-144.	1.0	11
69	A new role for zinc in the brain. <i>ELife</i> , 2017, 6, .	2.8	11
70	Bi-Parental Care Contributes to Sexually Dimorphic Neural Cell Genesis in the Adult Mammalian Brain. <i>PLoS ONE</i> , 2013, 8, e62701.	1.1	8
71	Behavior of Adult 5-HT1A Receptor Knockout Mice Exposed to Stress During Prenatal Development. <i>Neuroscience</i> , 2018, 371, 16-28.	1.1	8
72	Comparative potency of tactile, auditory, and visual stimulus repetition in eliciting activated forebrain EEG in the rabbit. <i>Behavioral Neuroscience</i> , 1984, 98, 333-44.	0.6	6

#	ARTICLE	IF	CITATIONS
73	Effects of tetrodotoxin treatment in LGN on neuromodulatory receptor expression in developing visual cortex. <i>Developmental Brain Research</i> , 1998, 106, 93-99.	2.1	5
74	Differential Progression of Magnetization Transfer Imaging Changes Depending on Severity of Cerebral Hypoxic-Ischemic Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008, 28, 1613-1623.	2.4	5
75	Effects of enriched housing on the neuronal morphology of mice that lack zinc transporter 3 (ZnT3) and vesicular zinc. <i>Behavioural Brain Research</i> , 2020, 379, 112336.	1.2	5
76	Increased cytochrome oxidase activity of mesencephalic neurons in developing rats displaying methylmercury-induced movement and postural disorders. <i>Neuroscience Letters</i> , 1988, 89, 271-276.	1.0	4
77	Sparing of two types of hippocampal rhythmical slow activity (RSA, theta) in adult rats decorticated neonatally. <i>Brain Research Bulletin</i> , 1991, 26, 425-427.	1.4	3
78	Neonatal Medial Frontal Cortex Lesions Disrupt Circadian Activity Patterns. <i>Developmental Neuroscience</i> , 2009, 31, 412-419.	1.0	3
79	Brain-derived Neurotrophic Factor and TrkB Levels in Mice that Lack Vesicular Zinc: Effects of Age and Sex. <i>Neuroscience</i> , 2020, 425, 90-100.	1.1	3
80	Vibrissae. , 2004, , 81-89.		3
81	Examination of Zinc in the Circadian System. <i>Neuroscience</i> , 2020, 432, 15-29.	1.1	2
82	Lack of Vesicular Zinc Does Not Affect the Behavioral Phenotype of Polyinosinic:Polycytidylic Acid-Induced Maternal Immune Activation Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2022, 16, 769322.	1.0	1
83	M-M-101 EARLY CIRCADIAN ABNORMALITIES AND NEUROPEPTIDE DEGENERATION WITHIN THE CIRCADIAN PACEMAKER ARE PREDICTIVE OF FUTURE ALZHEIMER'S DISEASE PATHOLOGY. <i>Sleep Medicine</i> , 2011, 12, S49.	0.8	0