

# Mara Dierssen

## List of Publications by Year in descending order

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187  
papers

9,883  
citations

31974

53  
h-index

46795

89  
g-index

209  
all docs

209  
docs citations

209  
times ranked

10452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cognitive deficits and associated neurological complications in individuals with Down's syndrome. <i>Lancet Neurology</i> , The, 2010, 9, 623-633.	10.2	372
2	Neurodevelopmental delay, motor abnormalities and cognitive deficits in transgenic mice overexpressing Dyrk1A (minibrain), a murine model of Down's syndrome. <i>Human Molecular Genetics</i> , 2001, 10, 1915-1923.	2.9	357
3	<i>Dyrk1A</i> Haploinsufficiency Affects Viability and Causes Developmental Delay and Abnormal Brain Morphology in Mice. <i>Molecular and Cellular Biology</i> , 2002, 22, 6636-6647.	2.3	306
4	<i>ErbB4</i> Deletion from Fast-Spiking Interneurons Causes Schizophrenia-like Phenotypes. <i>Neuron</i> , 2013, 79, 1152-1168.	8.1	254
5	Epigallocatechin-3-gallate, a DYRK1A inhibitor, rescues cognitive deficits in Down syndrome mouse models and in humans. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 278-288.	3.3	234
6	A behavioral assessment of Ts65Dn mice: a putative Down syndrome model. <i>Neuroscience Letters</i> , 1995, 199, 143-146.	2.1	233
7	Down syndrome: the brain in trisomic mode. <i>Nature Reviews Neuroscience</i> , 2012, 13, 844-858.	10.2	230
8	Safety and efficacy of cognitive training plus epigallocatechin-3-gallate in young adults with Down's syndrome (TESDAD): a double-blind, randomised, placebo-controlled, phase 2 trial. <i>Lancet Neurology</i> , The, 2016, 15, 801-810.	10.2	227
9	Fibrinogen drives dystrophic muscle fibrosis via a TGF $\beta$ /alternative macrophage activation pathway. <i>Genes and Development</i> , 2008, 22, 1747-1752.	5.9	222
10	Understanding the human brain through mouse models. <i>Genes, Brain and Behavior</i> , 2007, 6, 1-1.	2.2	203
11	Targeting the endocannabinoid system in the treatment of fragile X syndrome. <i>Nature Medicine</i> , 2013, 19, 603-607.	30.7	203
12	Potential Role of Olive Oil Phenolic Compounds in the Prevention of Neurodegenerative Diseases. <i>Molecules</i> , 2015, 20, 4655-4680.	3.8	181
13	Dendritic pathology in mental retardation: from molecular genetics to neurobiology. <i>Genes, Brain and Behavior</i> , 2006, 5, 48-60.	2.2	166
14	Differential effects of environmental enrichment on behavior and learning of male and female Ts65Dn mice, a model for Down syndrome. <i>Behavioural Brain Research</i> , 2002, 134, 185-200.	2.2	156
15	Synthetic zinc finger repressors reduce mutant huntingtin expression in the brain of R6/2 mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3136-45.	7.1	155
16	Constitutive Dyrk1A is abnormally expressed in Alzheimer disease, Down syndrome, Pick disease, and related transgenic models. <i>Neurobiology of Disease</i> , 2005, 20, 392-400.	4.4	152
17	Impaired short- and long-term memory in Ts65Dn mice, a model for Down syndrome. <i>Neuroscience Letters</i> , 1998, 247, 171-174.	2.1	149
18	Hippocampal volume and neuronal number in Ts65Dn mice: a murine model of down syndrome. <i>Neuroscience Letters</i> , 1998, 253, 175-178.	2.1	137

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19	Human DNA methylomes of neurodegenerative diseases show common epigenomic patterns. <i>Translational Psychiatry</i> , 2016, 6, e718-e718.	4.8	137
20	Alterations of Neocortical Pyramidal Cell Phenotype in the Ts65Dn Mouse Model of Down Syndrome: Effects of Environmental Enrichment. <i>Cerebral Cortex</i> , 2003, 13, 758-764.	2.9	136
21	Down Syndrome: From Understanding the Neurobiology to Therapy. <i>Journal of Neuroscience</i> , 2010, 30, 14943-14945.	3.6	133
22	DNA methylation map of mouse and human brain identifies target genes in Alzheimer's disease. <i>Brain</i> , 2013, 136, 3018-3027.	7.6	129
23	Dyrk1A expression pattern supports specific roles of this kinase in the adult central nervous system. <i>Brain Research</i> , 2003, 964, 250-263.	2.2	125
24	On dendrites in Down syndrome and DS murine models: a spiny way to learn. <i>Progress in Neurobiology</i> , 2004, 74, 111-126.	5.7	124
25	Synaptic deficit in the temporal cortex of partial trisomy 16 (Ts65Dn) mice. <i>Brain Research</i> , 2000, 858, 191-197.	2.2	115
26	Deficits of neuronal density in CA1 and synaptic density in the dentate gyrus, CA3 and CA1, in a mouse model of Down syndrome. <i>Brain Research</i> , 2004, 1022, 101-109.	2.2	108
27	Aneuploidy: From a Physiological Mechanism of Variance to Down Syndrome. <i>Physiological Reviews</i> , 2009, 89, 887-920.	28.8	106
28	Excitation/inhibition balance and learning are modified by Dyrk1a gene dosage. <i>Neurobiology of Disease</i> , 2014, 69, 65-75.	4.4	104
29	Fetal Down Syndrome Brains Exhibit Aberrant Levels of Neurotransmitters Critical for Normal Brain Development. <i>Pediatrics</i> , 2007, 120, e1465-e1471.	2.1	101
30	A new mouse model for the trisomy of the Abcg1/U2af1 region reveals the complexity of the combinatorial genetic code of down syndrome. <i>Human Molecular Genetics</i> , 2009, 18, 4756-4769.	2.9	101
31	Brain-derived neurotrophic factor modulates the severity of cognitive alterations induced by mutant huntingtin: Involvement of phospholipase C $\beta$ activity and glutamate receptor expression. <i>Neuroscience</i> , 2009, 158, 1234-1250.	2.3	98
32	Alterations of central noradrenergic transmission in Ts65Dn mouse, a model for Down syndrome. <i>Brain Research</i> , 1997, 749, 238-244.	2.2	97
33	Alterations in the phenotype of neocortical pyramidal cells in the Dyrk1A+/ $\Delta$ mouse. <i>Neurobiology of Disease</i> , 2005, 20, 115-122.	4.4	94
34	Impaired Spatial Learning Strategies and Novel Object Recognition in Mice Haploinsufficient for the Dual Specificity Tyrosine-Regulated Kinase-1A (Dyrk1A). <i>PLoS ONE</i> , 2008, 3, e2575.	2.5	87
35	Overexpression of Reelin Prevents the Manifestation of Behavioral Phenotypes Related to Schizophrenia and Bipolar Disorder. <i>Neuropsychopharmacology</i> , 2011, 36, 2395-2405.	5.4	85
36	Dyrk1A Influences Neuronal Morphogenesis Through Regulation of Cytoskeletal Dynamics in Mammalian Cortical Neurons. <i>Cerebral Cortex</i> , 2012, 22, 2867-2877.	2.9	84

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37	DYRK1A (Dual-Specificity Tyrosine-Phosphorylated and -Regulated Kinase 1A): A Gene with Dosage Effect During Development and Neurogenesis. <i>Scientific World Journal, The</i> , 2006, 6, 1911-1922.	2.1	81
38	The Mouse Brain Transcriptome by SAGE: Differences in Gene Expression between P30 Brains of the Partial Trisomy 16 Mouse Model of Down Syndrome (Ts65Dn) and Normals. <i>Genome Research</i> , 2000, 10, 2006-2021.	5.5	81
39	Protein expression of BACE1, BACE2 and APP in Down syndrome brains. <i>Amino Acids</i> , 2008, 35, 339-343.	2.7	77
40	Motor phenotypic alterations in TgDyrk1a transgenic mice implicate DYRK1A in Down syndrome motor dysfunction. <i>Neurobiology of Disease</i> , 2004, 15, 132-142.	4.4	75
41	Medical vulnerability of individuals with Down syndrome to severe COVID-19 data from the Trisomy 21 Research Society and the UK ISARIC4C survey. <i>EClinicalMedicine</i> , 2021, 33, 100769.	7.1	73
42	Ceramide Levels Regulated by Carnitine Palmitoyltransferase 1C Control Dendritic Spine Maturation and Cognition. <i>Journal of Biological Chemistry</i> , 2012, 287, 21224-21232.	3.4	71
43	A specific prelimbic-nucleus accumbens pathway controls resilience versus vulnerability to food addiction. <i>Nature Communications</i> , 2020, 11, 782.	12.8	70
44	Heterozygous deletion of the Williams-Beuren syndrome critical interval in mice recapitulates most features of the human disorder. <i>Human Molecular Genetics</i> , 2014, 23, 6481-6494.	2.9	69
45	Proteomic analysis of the fetal brain. <i>Proteomics</i> , 2002, 2, 1547-1576.	2.2	68
46	Normalization of Dyrk1A expression by AAV2/1-shDyrk1A attenuates hippocampal-dependent defects in the Ts65Dn mouse model of Down syndrome. <i>Neurobiology of Disease</i> , 2013, 52, 117-127.	4.4	67
47	uPA deficiency exacerbates muscular dystrophy in <i>MDX</i> mice. <i>Journal of Cell Biology</i> , 2007, 178, 1039-1051.	5.2	66
48	Environmental enrichment rescues DYRK1A activity and hippocampal adult neurogenesis in TgDyrk1A. <i>Neurobiology of Disease</i> , 2013, 60, 18-31.	4.4	66
49	Anomalous brain functional connectivity contributing to poor adaptive behavior in Down syndrome. <i>Cortex</i> , 2015, 64, 148-156.	2.4	64
50	RESEARCH FOCUS ON COMPULSIVE BEHAVIOUR IN ANIMALS: An animal model of compulsive food-taking behaviour. <i>Addiction Biology</i> , 2009, 14, 373-383.	2.6	63
51	Murine models for Down syndrome. <i>Physiology and Behavior</i> , 2001, 73, 859-871.	2.1	62
52	Haploinsufficiency of Dyrk1A in Mice Leads to Specific Alterations in the Development and Regulation of Motor Activity. <i>Behavioral Neuroscience</i> , 2004, 118, 815-821.	1.2	61
53	Early Environmental Stimulation Produces Long-Lasting Changes on $\beta^2$ -Adrenoceptor Transduction System. <i>Neurobiology of Learning and Memory</i> , 1995, 64, 49-57.	1.9	60
54	Targeting Dyrk1A with AAVshRNA Attenuates Motor Alterations in TgDyrk1A, a Mouse Model of Down Syndrome. <i>American Journal of Human Genetics</i> , 2008, 83, 479-488.	6.2	60

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55	A murine model for Down syndrome shows reduced responsiveness to pain. <i>NeuroReport</i> , 1999, 10, 1119-1122.	1.2	56
56	Overexpression of <i>Dyrk1A</i> , a Down Syndrome Candidate, Decreases Excitability and Impairs Gamma Oscillations in the Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2016, 36, 3648-3659.	3.6	54
57	Calcium channel modulation by dihydropyridines modifies sufentanil-induced antinociception in acute and tolerant conditions. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1990, 342, 559-65.	3.0	53
58	$\beta$ -amyloid controls altered Reelin expression and processing in Alzheimer's disease. <i>Neurobiology of Disease</i> , 2010, 37, 682-691.	4.4	53
59	Therapeutic approaches in the improvement of cognitive performance in Down syndrome. <i>Progress in Brain Research</i> , 2012, 197, 1-14.	1.4	53
60	A new cognitive evaluation battery for Down syndrome and its relevance for clinical trials. <i>Frontiers in Psychology</i> , 2015, 6, 708.	2.1	53
61	Potential Role of (-)-Epigallocatechin-3-Gallate (EGCG) in the Secondary Prevention of Alzheimer Disease. <i>Current Drug Targets</i> , 2016, 18, 174-195.	2.1	51
62	Transgenic mice overexpressing the full-length neurotrophin receptor TrkC exhibit increased catecholaminergic neuron density in specific brain areas and increased anxiety-like behavior and panic reaction. <i>Neurobiology of Disease</i> , 2006, 24, 403-418.	4.4	50
63	Association of NTRK3 and its interaction with NGF suggest an altered cross-regulation of the neurotrophin signaling pathway in eating disorders. <i>Human Molecular Genetics</i> , 2008, 17, 1234-1244.	2.9	50
64	Engineering DYRK1A overdosage yields Down syndrome-characteristic cortical splicing aberrations. <i>Neurobiology of Disease</i> , 2010, 40, 348-359.	4.4	49
65	Impaired cyclic AMP production in the hippocampus of a Down syndrome murine model. <i>Developmental Brain Research</i> , 1996, 95, 122-124.	1.7	48
66	Down Syndrome Is a Metabolic Disease: Altered Insulin Signaling Mediates Peripheral and Brain Dysfunctions. <i>Frontiers in Neuroscience</i> , 2020, 14, 670.	2.8	48
67	Neurobehavioral development of two mouse lines commonly used in transgenic studies. <i>Pharmacology Biochemistry and Behavior</i> , 2002, 73, 19-25.	2.9	46
68	Prefrontal hippocampal functional connectivity encodes recognition memory and is impaired in intellectual disability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11788-11798.	7.1	45
69	Dissociation between CA3-CA1 Synaptic Plasticity and Associative Learning in TgNTRK3 Transgenic Mice. <i>Journal of Neuroscience</i> , 2007, 27, 2253-2260.	3.6	44
70	Principal Component Analysis of the Effects of Environmental Enrichment and (-)-epigallocatechin-3-gallate on Age-Associated Learning Deficits in a Mouse Model of Down Syndrome. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 330.	2.0	44
71	Behavioral Characterization of a Mouse Model Overexpressing DSCR1/ RCAN1. <i>PLoS ONE</i> , 2011, 6, e17010.	2.5	42
72	Combined Treatment With Environmental Enrichment and (-)-Epigallocatechin-3-Gallate Ameliorates Learning Deficits and Hippocampal Alterations in a Mouse Model of Down Syndrome. <i>ENEURO</i> .0103-16.2016.	1.9	42

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73	Increased NR2A expression and prolonged decay of NMDA-induced calcium transient in cerebellum of TgDyrk1A mice, a mouse model of Down syndrome. <i>Neurobiology of Disease</i> , 2008, 32, 377-384.	4.4	41
74	DREAM Controls the On/Off Switch of Specific Activity-Dependent Transcription Pathways. <i>Molecular and Cellular Biology</i> , 2014, 34, 877-887.	2.3	41
75	Monoamine deficits in the brain of methyl-CpG binding protein 2 null mice suggest the involvement of the cerebral cortex in early stages of Rett syndrome. <i>Neuroscience</i> , 2010, 170, 453-467.	2.3	40
76	RhoE Deficiency Produces Postnatal Lethality, Profound Motor Deficits and Neurodevelopmental Delay in Mice. <i>PLoS ONE</i> , 2011, 6, e19236.	2.5	39
77	Opposite Phenotypes of Muscle Strength and Locomotor Function in Mouse Models of Partial Trisomy and Monosomy 21 for the Proximal Hspa13-App Region. <i>PLoS Genetics</i> , 2015, 11, e1005062.	3.5	39
78	Carnitine palmitoyltransferase 1C deficiency causes motor impairment and hypoactivity. <i>Behavioural Brain Research</i> , 2013, 256, 291-297.	2.2	38
79	Mutations in L-type amino acid transporter-2 support SLC7A8 as a novel gene involved in age-related hearing loss. <i>ELife</i> , 2018, 7, .	6.0	38
80	Overexpression of the CHRNA5/A3/B4 genomic cluster in mice increases the sensitivity to nicotine and modifies its reinforcing effects. <i>Amino Acids</i> , 2012, 43, 897-909.	2.7	36
81	Loss of <i>SIRT2</i> leads to axonal degeneration and locomotor disability associated with redox and energy imbalance. <i>Aging Cell</i> , 2017, 16, 1404-1413.	6.7	36
82	Network analysis of Down syndrome and SARS-CoV-2 identifies risk and protective factors for COVID-19. <i>Scientific Reports</i> , 2021, 11, 1930.	3.3	35
83	The $\alpha 5 \alpha 3 \beta 4^*$ nicotinic <i>ACh</i> receptor subtype mediates physical dependence to morphine: mouse and human studies. <i>British Journal of Pharmacology</i> , 2014, 171, 3845-3857.	5.4	34
84	Anomalous White Matter Structure and the Effect of Age in Down Syndrome Patients. <i>Journal of Alzheimer's Disease</i> , 2017, 57, 61-70.	2.6	32
85	Transgenic over expression of nicotinic receptor alpha 5, alpha 3, and beta 4 subunit genes reduces ethanol intake in mice. <i>Alcohol</i> , 2012, 46, 205-215.	1.7	30
86	Hippocampal Hyperexcitability Underlies Enhanced Fear Memories in Tg <i>NTRK3</i> , a Panic Disorder Mouse Model. <i>Journal of Neuroscience</i> , 2013, 33, 15259-15271.	3.6	30
87	Genome-wide miR-155 and miR-802 target gene identification in the hippocampus of Ts65Dn Down syndrome mouse model by miRNA sponges. <i>BMC Genomics</i> , 2015, 16, 907.	2.8	30
88	Specific Susceptibility to COVID-19 in Adults with Down Syndrome. <i>NeuroMolecular Medicine</i> , 2021, 23, 561-571.	3.4	30
89	Cholinergic, serotonergic and catecholaminergic neurons are not affected in Ts65Dn mice. <i>NeuroReport</i> , 1997, 8, 3475-3478.	1.2	29
90	Synthesis and evaluation of tacrine-related compounds for the treatment of Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 1994, 29, 205-221.	5.5	28

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91	New Perspectives for the Rescue of Cognitive Disability in Down Syndrome. <i>Journal of Neuroscience</i> , 2015, 35, 13843-13852.	3.6	28
92	Dyrk1A Is Dynamically Expressed on Subsets of Motor Neurons and in the Neuromuscular Junction: Possible Role in Down Syndrome. <i>PLoS ONE</i> , 2013, 8, e54285.	2.5	26
93	Cannabinoid type-1 receptor blockade restores neurological phenotypes in two models for Down syndrome. <i>Neurobiology of Disease</i> , 2019, 125, 92-106.	4.4	26
94	Immune Dysregulation and the Increased Risk of Complications and Mortality Following Respiratory Tract Infections in Adults With Down Syndrome. <i>Frontiers in Immunology</i> , 2021, 12, 621440.	4.8	26
95	Dopaminergic deficiency in mice with reduced levels of the dual-specificity tyrosine-phosphorylated and regulated kinase 1A, Dyrk1A+/? . <i>Genes, Brain and Behavior</i> , 2007, 6, 569-578.	2.2	25
96	Candidate genes for panic disorder: insight from human and mouse genetic studies. <i>Genes, Brain and Behavior</i> , 2007, 6, 2-23.	2.2	25
97	A gel-based proteomic method reveals several protein pathway abnormalities in fetal Down syndrome brain. <i>Journal of Proteomics</i> , 2011, 74, 547-557.	2.4	25
98	The role of nicotinic receptors in shaping and functioning of the glutamatergic system: A window into cognitive pathology. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 46, 315-325.	6.1	25
99	Age-associated motor and visuo-spatial learning phenotype in Dyrk1A heterozygous mutant mice. <i>Neurobiology of Disease</i> , 2009, 36, 312-319.	4.4	24
100	In vivo effects of APP are not exacerbated by BACE2 co-overexpression: behavioural characterization of a double transgenic mouse model. <i>Amino Acids</i> , 2010, 39, 1571-1580.	2.7	24
101	COVID-19 in Children with Down Syndrome: Data from the Trisomy 21 Research Society Survey. <i>Journal of Clinical Medicine</i> , 2021, 10, 5125.	2.4	24
102	Characterization of a mouse model overexpressing beta-site APP-cleaving enzyme 2 reveals a new role for BACE2. <i>Genes, Brain and Behavior</i> , 2010, 9, 160-172.	2.2	23
103	Semantic Verbal Fluency Pattern, Dementia Rating Scores and Adaptive Behavior Correlate With Plasma A $\beta$ 242 Concentrations in Down Syndrome Young Adults. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 301.	2.0	23
104	New murine Niemann-Pick type C models bearing a pseudoexon-generating mutation recapitulate the main neurobehavioural and molecular features of the disease. <i>Scientific Reports</i> , 2017, 7, 41931.	3.3	23
105	Effect of epigallocatechin gallate on the body composition and lipid profile of down syndrome individuals: Implications for clinical management. <i>Clinical Nutrition</i> , 2020, 39, 1292-1300.	5.0	23
106	Hypothalamus transcriptome profile suggests an anorexia-cachexia syndrome in the anx/anx mouse model. <i>Physiological Genomics</i> , 2008, 35, 341-350.	2.3	22
107	Increased levels of inflammatory plasma markers and obesity risk in a mouse model of Down syndrome. <i>Free Radical Biology and Medicine</i> , 2018, 114, 122-130.	2.9	21
108	DYRK1A Overexpression Alters Cognition and Neural-Related Proteomic Pathways in the Hippocampus That Are Rescued by Green Tea Extract and/or Environmental Enrichment. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 272.	2.9	21

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109	Metabolomics predicts the pharmacological profile of new psychoactive substances. <i>Journal of Psychopharmacology</i> , 2019, 33, 347-354.	4.0	21
110	Reduced phospholipase C $\alpha$ 2 activity and isoform expression in the cerebellum of TS65DN mouse: A model of down syndrome. <i>Journal of Neuroscience Research</i> , 2001, 66, 540-550.	2.9	19
111	G-Protein-Associated Signal Transduction Processes Are Restored after Postweaning Environmental Enrichment in Ts65Dn, a Down Syndrome Mouse Model. <i>Developmental Neuroscience</i> , 2011, 33, 442-450.	2.0	19
112	Brain G protein-dependent signaling pathways in Down syndrome and Alzheimer's disease. <i>Amino Acids</i> , 2006, 31, 449-456.	2.7	18
113	Susceptibility to stress in transgenic mice overexpressing TrkC, a model of panic disorder. <i>Journal of Psychiatric Research</i> , 2010, 44, 157-167.	3.1	18
114	Cognition and Hippocampal Plasticity in the Mouse Is Altered by Monosomy of a Genomic Region Implicated in Down Syndrome. <i>Genetics</i> , 2014, 197, 899-912.	2.9	18
115	Where Environment Meets Cognition: A Focus on Two Developmental Intellectual Disability Disorders. <i>Neural Plasticity</i> , 2016, 2016, 1-20.	2.2	18
116	Pitfalls And Hopes in Down Syndrome Therapeutic Approaches: In the Search for Evidence-Based Treatments. <i>Behavior Genetics</i> , 2006, 36, 454-468.	2.1	17
117	Developmental molecular and functional cerebellar alterations induced by PCP4/PEP19 overexpression: Implications for Down syndrome. <i>Neurobiology of Disease</i> , 2014, 63, 92-106.	4.4	17
118	Changing Paradigms in Down Syndrome: The First International Conference of the Trisomy 21 Research Society. <i>Molecular Syndromology</i> , 2016, 7, 251-261.	0.8	16
119	A phase 1, randomized double-blind, placebo controlled trial to evaluate safety and efficacy of epigallocatechin-3-gallate and cognitive training in adults with Fragile X syndrome. <i>Clinical Nutrition</i> , 2020, 39, 378-387.	5.0	16
120	Molecular Rescue of Dyrk1A Overexpression Alterations in Mice with Fontup <sup>®</sup> Dietary Supplement: Role of Green Tea Catechins. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1404.	4.1	16
121	Translational validity and implications of pharmacotherapies in preclinical models of Down syndrome. <i>Progress in Brain Research</i> , 2020, 251, 245-268.	1.4	16
122	Reduced Mid1 Expression and Delayed Neuromotor Development in daDREAM Transgenic Mice. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 58.	2.9	15
123	malate aspartate shuttle activity is critical for dopamine handling in the nigrostriatal pathway. <i>Journal of Neurochemistry</i> , 2013, 124, 347-362.	3.9	15
124	NGF Upregulates the Plasminogen Activation Inhibitor-1 in Neurons via the Calcineurin/NFAT Pathway and the Down Syndrome-Related Proteins DYRK1A and RCAN1 Attenuate This Effect. <i>PLoS ONE</i> , 2013, 8, e67470.	2.5	15
125	Re-establishment of the epigenetic state and rescue of kinome deregulation in Ts65Dn mice upon treatment with green tea extract and environmental enrichment. <i>Scientific Reports</i> , 2020, 10, 16023.	3.3	15
126	Green tea extracts containing epigallocatechin-3-gallate modulate facial development in Down syndrome. <i>Scientific Reports</i> , 2021, 11, 4715.	3.3	15

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127	Potential of acute opioid-induced respiratory depression and reversal of tolerance by the calcium antagonist nimodipine in awake rats. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1993, 348, 633-637.	3.0	14
128	From neural to genetic substrates of panic disorder: Insights from human and mouse studies. <i>European Journal of Pharmacology</i> , 2015, 759, 127-141.	3.5	14
129	Translating molecular advances in Down syndrome and Fragile X syndrome into therapies. <i>European Neuropsychopharmacology</i> , 2018, 28, 675-690.	0.7	14
130	Respiratory actions induced by cholecystokinin at the brainstem level. <i>Peptides</i> , 1988, 9, 809-815.	2.4	13
131	Ca <sup>2+</sup> channel modulation by dihydropyridines modifies sufentanil-induced respiratory depression in cats. <i>European Journal of Pharmacology</i> , 1991, 198, 149-155.	3.5	13
132	Differential responses to anxiogenic drugs in a mouse model of panic disorder as revealed by Fos immunocytochemistry in specific areas of the fear circuitry. <i>Amino Acids</i> , 2007, 33, 677-688.	2.7	13
133	Functional implications of hippocampal adult neurogenesis in intellectual disabilities. <i>Amino Acids</i> , 2013, 45, 113-131.	2.7	13
134	Infralimbic Neurotrophin-3 Infusion Rescues Fear Extinction Impairment in a Mouse Model of Pathological Fear. <i>Neuropsychopharmacology</i> , 2017, 42, 462-472.	5.4	13
135	Time-course and dynamics of obesity-related behavioral changes induced by energy-dense foods in mice. <i>Addiction Biology</i> , 2018, 23, 531-543.	2.6	13
136	Plasticity as a therapeutic target for improving cognition and behavior in Down syndrome. <i>Progress in Brain Research</i> , 2020, 251, 269-302.	1.4	13
137	Meta-analysis of transcriptomic data reveals clusters of consistently deregulated gene and disease ontologies in Down syndrome. <i>PLoS Computational Biology</i> , 2021, 17, e1009317.	3.2	13
138	The Mouse Brain Transcriptome by SAGE: Differences in Gene Expression between P30 Brains of the Partial Trisomy 16 Mouse Model of Down Syndrome (Ts65Dn) and Normals. <i>Genome Research</i> , 2000, 10, 2006-2021.	5.5	13
139	Overexpression of $\alpha 5$ nicotinic receptor subunits modifies impulsive-like behavior. <i>Drug and Alcohol Dependence</i> , 2012, 122, 247-252.	3.2	12
140	Aberrant brain microRNA target and miRISC gene expression in the anx/anx anorexia mouse model. <i>Gene</i> , 2012, 497, 181-190.	2.2	12
141	The Value of Mouse Models of Rare Diseases: A Spanish Experience. <i>Frontiers in Genetics</i> , 2020, 11, 583932.	2.3	12
142	Environmental Enrichment Induces Epigenomic and Genome Organization Changes Relevant for Cognition. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 664912.	2.9	12
143	Extinction and reinstatement of an operant responding maintained by food in different models of obesity. <i>Addiction Biology</i> , 2018, 23, 544-555.	2.6	11
144	Post-train administration of 9-amino-1,2,3,4-tetrahydroacridine enhances passive avoidance retention and decreases $\beta$ -adrenoceptor-linked cyclic AMP formation in middle-aged rats. <i>Brain Research</i> , 1992, 586, 117-120.	2.2	10

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145	Increased opioid dependence in a mouse model of panic disorder. <i>Frontiers in Behavioral Neuroscience</i> , 2009, 3, 60.	2.0	10
146	RhoE deficiency alters postnatal subventricular zone development and the number of calbindin-expressing neurons in the olfactory bulb of mouse. <i>Brain Structure and Function</i> , 2015, 220, 3113-3130.	2.3	10
147	VNTR-DAT1 and COMT Val158Met Genotypes Modulate Mental Flexibility and Adaptive Behavior Skills in Down Syndrome. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 193.	2.0	10
148	Rethinking Intellectual Disability from Neuro- to Astro-Pathology. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9039.	4.1	10
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151	Effects of age on $\beta_1$ -adrenoceptor subtypes in the heart ventricular muscle of the rat. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 45, 907-909.	2.4	8
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158	Mechanism of the respiratory action of pentobarbital at the medullary and pontine levels. <i>European Journal of Pharmacology</i> , 1986, 125, 225-232.	3.5	7
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160	Comparison of COVID-19 and Non-COVID-19 Pneumonia in Down Syndrome. <i>Journal of Clinical Medicine</i> , 2021, 10, 3748.	2.4	7
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165	Acute effects of tetrahydroaminoacridine on $\hat{1}^2$ -adrenoceptor-linked cyclic AMP accumulation in brain of young and middle-aged rats. <i>Neuroscience Letters</i> , 1991, 132, 51-54.	2.1	5
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167	Pergola: Boosting Visualization and Analysis of Longitudinal Data by Unlocking Genomic Analysis Tools. <i>IScience</i> , 2018, 9, 244-257.	4.1	5
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179	Chapter 5.9 Modelling Down syndrome in mice. <i>Handbook of Behavioral Neuroscience</i> , 1999, 13, 895-913.	0.0	1
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