Karoly Mirnics

List of Publications by Year
in descending order

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148 papers	13,143 citations	41258 49 h-index	22764 112 g-index
178 all docs	178 docs citations	178 times ranked	14315 citing authors

#	Article	IF	Citations
1	Medication effects on developmental sterol biosynthesis. Molecular Psychiatry, 2022, 27, 490-501.	4.1	11
2	Temporal brain microRNA expression changes in a mouse model of neonatal hypoxicâ€“ischemic injury. Pediatric Research, 2022, 91, 92-100.	1.1	5
3	Ubiquitous Aberration in Cholesterol Metabolism across Pancreatic Ductal Adenocarcinoma. Metabolites, 2022, 12, 47.	1.3	7
4	Individual and simultaneous treatment with antipsychotic aripiprazole and antidepressant trazodone inhibit sterol biosynthesis in the adult brain. Journal of Lipid Research, 2022, 63, 100249.	2.0	5
5	Altered Cholesterol Biosynthesis Affects Drug Metabolism. ACS Omega, 2021, 6, 5490-5498.	1.6	1
6	Sterol Biosynthesis Inhibition in Pregnant Women Taking Prescription Medications. ACS Pharmacology and Translational Science, 2021, 4, 848-857.	2.5	6
7	Trazodone effects on developing brain. Translational Psychiatry, 2021, 11, 85.	2.4	13
8	Prescription Medications Alter Neuronal and Glial Cholesterol Synthesis. ACS Chemical Neuroscience, 2021, 12, 735-745.	1.7	16
9	Interaction of maternal immune activation and genetic interneuronal inhibition. Brain Research, 2021, 1759, 147370.	1.1	4
10	Biochemical and Clinical Effects of Vitamin E Supplementation in Hungarian Smith-Lemli-Opitz Syndrome Patients. Biomolecules, 2021, 11, 1228.	1.8	2
11	Maternal cariprazine exposure inhibits embryonic and postnatal brain cholesterol biosynthesis. Molecular Psychiatry, 2020, 25, 2685-2694.	4.1	13
12	Amiodarone Alters Cholesterol Biosynthesis through Tissue-Dependent Inhibition of Emopamil Binding Protein and Dehydrocholesterol Reductase 24. ACS Chemical Neuroscience, 2020, 11, 1413-1423.	1.7	18
13	Cholesterol Biosynthesis and Uptake in Developing Neurons. ACS Chemical Neuroscience, 2019, 10, 3671-3681.	1.7	57
14	Desmosterolosis and desmosterol homeostasis in the developing mouse brain. Journal of Inherited Metabolic Disease, 2019, 42, 934-943.	1.7	17
15	Maternal aripiprazole exposure interacts with 7-dehydrocholesterol reductase mutations and alters embryonic neurodevelopment. Molecular Psychiatry, 2019, 24, 491-500.	4.1	20
16	Sex modifies placental gene expression in response to metabolic and inflammatory stress. Placenta, 2019, 78, 1-9.	0.7	47
17	Subcellular localization of sterol biosynthesis enzymes. Journal of Molecular Histology, 2019, 50, 63-73.	1.0	10
18	Gestational diabetes exacerbates maternal immune activation effects in the developing brain. Molecular Psychiatry, 2018, 23, 1920-1928.	4.1	51

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19	Strong correlation of downregulated genes related to synaptic transmission and mitochondria in post-mortem autism cerebral cortex. Journal of Neurodevelopmental Disorders, 2018, 10, 18.	1.5	51
20	Dichlorophenyl piperazines, including a recently-approved atypical antipsychotic, are potent inhibitors of DHCR7, the last enzyme in cholesterol biosynthesis. Toxicology and Applied Pharmacology, 2018, 349, 21-28.	1.3	24
21	Connecting the Dots. Biological Psychiatry, 2017, 81, 463-464.	0.7	2
22	Maternal deprivation alters expression of neural maturation gene tbr1 in the amygdala paralaminar nucleus in infant female macaques. Developmental Psychobiology, 2017, 59, 235-249.	0.9	15
23	Vulnerability of DHCR7+/â^' mutation carriers to aripiprazole and trazodone exposure. Journal of Lipid Research, 2017, 58, 2139-2146.	2.0	16
24	Inhibitors of 7-Dehydrocholesterol Reductase: Screening of a Collection of Pharmacologically Active Compounds in Neuro2a Cells. Chemical Research in Toxicology, 2016, 29, 892-900.	1.7	37
25	Constance E. Lieber, Theodore R. Stanley, and the Enduring Impact of Philanthropy on Psychiatry Research. Biological Psychiatry, 2016, 80, 84-86.	0.7	2
26	Longitudinal assessment of neuronal 3D genomes in mouse prefrontal cortex. Nature Communications, 2016, 7, 12743.	5.8	16
27	The Effect of Small Molecules on Sterol Homeostasis: Measuring 7-Dehydrocholesterol in Dhcr7-Deficient Neuro2a Cells and Human Fibroblasts. Journal of Medicinal Chemistry, 2016, 59, 1102-1115.	2.9	48
28	An altered peripheral IL6 response in major depressive disorder. Neurobiology of Disease, 2016, 89, 46-54.	2.1	23
29	Human dermal fibroblasts in psychiatry research. Neuroscience, 2016, 320, 105-121.	1.1	31
30	Inhibition of parvalbumin-expressing interneurons results in complex behavioral changes. Molecular Psychiatry, 2015, 20, 1499-1507.	4.1	84
31	Fibroblasts from patients with major depressive disorder show distinct transcriptional response to metabolic stressors. Translational Psychiatry, 2015, 5, e523-e523.	2.4	25
32	Olanzapine Reversed Brain Gene Expression Changes Induced by Phencyclidine Treatment in Non-Human Primates. Molecular Neuropsychiatry, 2015, 1, 82-93.	3.0	18
33	Transcriptional maturation of the mouse auditory forebrain. BMC Genomics, 2015, 16, 606.	1.2	25
34	Expression analysis in a rat psychosis model identifies novel candidate genes validated in a large caseâ€“control sample of schizophrenia. Translational Psychiatry, 2015, 5, e656-e656.	2.4	36
35	Schizophrenia as a Disorder of Molecular Pathways. Biological Psychiatry, 2015, 77, 22-28.	0.7	80
36	Coordinated Messenger RNA/MicroRNA Changes in Fibroblasts of Patients with Major Depression. Biological Psychiatry, 2015, 77, 256-265.	0.7	57

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37	Neurodevelopment, GABA System Dysfunction, and Schizophrenia. Neuropsychopharmacology, 2015, 40, 190-206.	2.8	172
38	Metabolic consequences of interleukin-6 challenge in developing neurons and astroglia. Journal of Neuroinflammation, 2014, 11, 183.	3.1	28
39	Hippocampal immunostaining of CCK-GAD1 transgenic mice. Molecular Psychiatry, 2014, 19, 529-529.	4.1	2
40	Genes for endosomal NHE6 and NHE9 are misregulated in autism brains. Molecular Psychiatry, 2014, 19, 277-279.	4.1	62
41	Clues From the Cloud. American Journal of Psychiatry, 2014, 171, 705-708.	4.0	0
42	Antioxidant Supplementation Ameliorates Molecular Deficits in Smith-Lemli-Opitz Syndrome. Biological Psychiatry, 2014, 75, 215-222.	0.7	44
43	Immune System Disturbances in Schizophrenia. Biological Psychiatry, 2014, 75, 316-323.	0.7	163
44	Programmed to be Human?. Neuron, 2014, 81, 224-226.	3.8	6
45	The Genome in Three Dimensions: A New Frontier in Human Brain Research. Biological Psychiatry, 2014, 75, 961-969.	0.7	51
46	Modulation of behavioral networks by selective interneuronal inactivation. Molecular Psychiatry, 2014, 19, 580-587.	4.1	38
47	Metabolic stress-induced microRNA and mRNA expression profiles of human fibroblasts. Experimental Cell Research, 2014, 320, 343-353.	1.2	30
48	The role of cannabinoid 1 receptor expressing interneurons in behavior. Neurobiology of Disease, 2014, 63, 210-221.	2.1	20
49	Metabolism of oxysterols derived from nonenzymatic oxidation of 7-dehydrocholesterol in cells. Journal of Lipid Research, 2013, 54, 1135-1143.	2.0	48
50	Lipid biomarkers of oxidative stress in a genetic mouse model of Smithâ€Lemliâ€Opitz syndrome. Journal of Inherited Metabolic Disease, 2013, 36, 113-122.	1.7	52
51	Lost Their Ways?. Biological Psychiatry, 2013, 74, 398-399.	0.7	0
52	Conserved Chromosome 2q31 Conformations Are Associated with Transcriptional Regulation of GAD1 GABA Synthesis Enzyme and Altered in Prefrontal Cortex of Subjects with Schizophrenia. Journal of Neuroscience, 2013, 33, 11839-11851.	1.7	60
53	A Role for Presenilins in Autophagy Revisited: Normal Acidification of Lysosomes in Cells Lacking PSEN1 and PSEN2. Journal of Neuroscience, 2012, 32, 8633-8648.	1.7	100
54	Physical Activityâ€Associated Gene Expression Signature in Nonhuman Primate Motor Cortex. Obesity, 2012, 20, 692-698.	1.5	3

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55	Physical activity is linked to ceruloplasmin in the striatum of intact but not MPTP-treated primates. Cell and Tissue Research, 2012, 350, 401-407.	1.5	8
56	Gene transcripts associated with BMI in the motor cortex and caudate nucleus of calorie restricted rhesus monkeys. Genomics, 2012, 99, 144-151.	1.3	8
57	Immune system gene dysregulation in autism and schizophrenia. Developmental Neurobiology, 2012, 72, 1277-1287.	1.5	96
58	Modeling Interneuron Dysfunction in Schizophrenia. Developmental Neuroscience, 2012, 34, 152-158.	1.0	12
59	Poster #10 EFFECTS OF MATERNAL IMMUNE ACTIVATION ON GENE EXPRESSION PATTERNS IN THE FETAL BRAIN. Schizophrenia Research, 2012, 136, S188.	1.1	0
60	Effects of maternal immune activation on gene expression patterns in the fetal brain. Translational Psychiatry, 2012, 2, e98-e98.	2.4	141
61	Gene expression profiling of the brain: Pondering facts and fiction. Neurobiology of Disease, 2012, 45, 3-7.	2.1	13
62	Expressing the mind. Neurobiology of Disease, 2012, 45, 1-2.	2.1	1
63	DHCEO accumulation is a critical mediator of pathophysiology in a Smithâ€“Lemliâ€“Opitz syndrome model. Neurobiology of Disease, 2012, 45, 923-929.	2.1	65
64	Analyzing Schizophrenia by DNA Microarrays. Biological Psychiatry, 2011, 69, 157-162.	0.7	58
65	The autism disconnect. Nature, 2011, 474, 294-295.	13.7	6
66	Special issue introduction. International Journal of Developmental Neuroscience, 2011, 29, 189-191.	0.7	1
67	Synaptic changes in the brain of subjects with schizophrenia. International Journal of Developmental Neuroscience, 2011, 29, 305-309.	0.7	122
68	Wnt Signaling as a Potential Therapeutic Target for Frontotemporal Dementia. Neuron, 2011, 71, 955-957.	3.8	14
69	Altered expression of genes involved in inflammation and apoptosis in frontal cortex in major depression. Molecular Psychiatry, 2011, 16, 751-762.	4.1	425
70	Genome-Wide Expression Studies in Autism-Spectrum Disorders: Moving from Neurodevelopment to Neuroimmunology. Advances in Neurobiology, 2011, , 469-487.	1.3	2
71	Genetic predisposition to schizophrenia: what did we learn and what does the future hold?. Neuropsychopharmacologia Hungarica, 2011, 13, 205-10.	0.1	9
72	Molecular correlates of spontaneous activity in non-human primates. Journal of Neural Transmission, 2010, 117, 1353-1358.	1.4	5

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73	Infragranular gene expression disturbances in the prefrontal cortex in schizophrenia: Signature of altered neural development?. Neurobiology of Disease, 2010, 37, 738-746.	2.1	42
74	Novel animal models for studying complex brain disorders: BAC-driven miRNA-mediated in vivo silencing of gene expression. Molecular Psychiatry, 2010, 15, 987-995.	4.1	23
75	NOVEL ANIMAL MODELS FOR STUDYING SCHIZOPHRENIA: BAC-DRIVEN MIRNA-MEDIATED IN VIVO SILENCING OF GENE EXPRESSION. Schizophrenia Research, 2010, 117, 105.	1.1	0
76	The organization of the transcriptional network in specific neuronal classes. Molecular Systems Biology, 2009, 5, 291.	3.2	114
77	Molecular consequences of altered neuronal cholesterol biosynthesis. Journal of Neuroscience Research, 2009, 87, 866-875.	1.3	37
78	NRIF is a Regulator of Neuronal Cholesterol Biosynthesis Genes. Journal of Molecular Neuroscience, 2009, 38, 152-158.	1.1	10
79	Involvement of the PRKCB1 gene in autistic disorder: significant genetic association and reduced neocortical gene expression. Molecular Psychiatry, 2009, 14, 705-718.	4.1	75
80	Breaking the gene barrier in schizophrenia. Nature Medicine, 2009, 15, 488-490.	15.2	15
81	Triggering endogenous neuroprotective processes through exercise in models of dopamine deficiency. Parkinsonism and Related Disorders, 2009, 15, S42-S45.	1.1	94
82	Molecular signatures of neurodegeneration in the cortex of PS1/PS2 double knockout mice. Molecular Neurodegeneration, 2008, 3, 14.	4.4	20
83	What is in the brain soup?. Nature Neuroscience, 2008, 11, 1237-1238.	7.1	8
84	Alterations in GABA-related transcriptome in the dorsolateral prefrontal cortex of subjects with schizophrenia. Molecular Psychiatry, 2008, 13, 147-161.	4.1	447
85	Immune transcriptome alterations in the temporal cortex of subjects with autism. Neurobiology of Disease, 2008, 30, 303-311.	2.1	344
86	It Is Time to Take a Stand for Medical Research and Against Terrorism Targeting Medical Scientists. Biological Psychiatry, 2008, 63, 725-727.	0.7	65
87	Conserved Regional Patterns of GABA-Related Transcript Expression in the Neocortex of Subjects With Schizophrenia. American Journal of Psychiatry, 2008, 165, 479-489.	4.0	396
88	Transcriptome alterations in the prefrontal cortex of subjects with schizophrenia who committed suicide. Neuropsychopharmacologia Hungarica, 2008, 10, 9-14.	0.1	29
89	Linkage Disequilibrium Patterns and Functional Analysis of RGS4 Polymorphisms in Relation to Schizophrenia. Schizophrenia Bulletin, 2007, 34, 118-126.	2.3	34
90	Activation of the ciliary neurotrophic factor (CNTF) signalling pathway in cortical neurons of multiple sclerosis patients. Brain, 2007, 130, 2566-2576.	3.7	83

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91	Regulator of G Signaling 16 Is a Marker for the Distinct Endoplasmic Reticulum Stress State Associated with Aggregated Mutant Î±1-Antitrypsin Z in the Classical Form of Î±1-Antitrypsin Deficiency. Journal of Biological Chemistry, 2007, 282, 27769-27780.	1.6	75
92	Maternal Immune Activation Alters Fetal Brain Development through Interleukin-6. Journal of Neuroscience, 2007, 27, 10695-10702.	1.7	1,310
93	Amygdala Gene Expression Correlates of Social Behavior in Monkeys Experiencing Maternal Separation. Journal of Neuroscience, 2007, 27, 3295-3304.	1.7	114
94	Molecular Evidence for Increased Expression of Genes Related to Immune and Chaperone Function in the Prefrontal Cortex in Schizophrenia. Biological Psychiatry, 2007, 62, 711-721.	0.7	302
95	Disruption of cerebral cortex MET signaling in autism spectrum disorder. Annals of Neurology, 2007, 62, 243-250.	2.8	176
96	Molecular markers distinguishing supragranular and infragranular layers in the human prefrontal cortex. European Journal of Neuroscience, 2007, 25, 1843-1854.	1.2	52
97	DNA pooling: a comprehensive, multi-stage association analysis of ACSL6 and SIRT5 polymorphisms in schizophrenia. Genes, Brain and Behavior, 2007, 6, 229-239.	1.1	16
98	Critical Appraisal of DNA Microarrays in Psychiatric Genomics. Biological Psychiatry, 2006, 60, 163-176.	0.7	129
99	Evaluation of a Susceptibility Gene for Schizophrenia: Genotype Based Meta-Analysis of RGS4 Polymorphisms from Thirteen Independent Samples. Biological Psychiatry, 2006, 60, 152-162.	0.7	87
100	Making the Case for a Candidate Vulnerability Gene in Schizophrenia: Convergent Evidence for Regulator of G-Protein Signaling 4 (RGS4). Biological Psychiatry, 2006, 60, 534-537.	0.7	88
101	Synaptic plasticity in the adult spinal dorsal horn: The appearance of new functional connections following peripheral nerve regeneration. Experimental Neurology, 2006, 200, 468-479.	2.0	18
102	Specificity and timing of neocortical transcriptome changes in response to BDNF gene ablation during embryogenesis or adulthood. Molecular Psychiatry, 2006, 11, 633-648.	4.1	89
103	DNA self-polymers as microarray probes improve assay sensitivity. Journal of Neuroscience Methods, 2006, 151, 216-223.	1.3	4
104	Correlation of transcriptome profile with electrical activity in temporal lobe epilepsy. Neurobiology of Disease, 2006, 22, 374-387.	2.1	72
105	Mitochondrial dysfunction as a cause of axonal degeneration in multiple sclerosis patients. Annals of Neurology, 2006, 59, 478-489.	2.8	748
106	Microarrays in Brain Research: Data Quality and Limitations Revisited. Current Genomics, 2006, 7, 11-17.	0.7	3
107	Functional genomic methodologies. Progress in Brain Research, 2006, 158, 15-40.	0.9	33
108	Transcriptome alterations in schizophrenia: disturbing the functional architecture of the dorsolateral prefrontal cortex. Progress in Brain Research, 2006, 158, 141-152.	0.9	17

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109	Altered Expression of 14-3-3 Genes in the Prefrontal Cortex of Subjects with Schizophrenia. Neuropsychopharmacology, 2005, 30, 974-983.	2.8	75
110	Gene expression changes in schizophrenia: how do they arise and what do they mean?. Clinical Neuroscience Research, 2005, 5, 15-21.	0.8	3
111	Presenilin-1-Dependent Transcriptome Changes. Journal of Neuroscience, 2005, 25, 1571-1578.	1.7	42
112	Platform influence on DNA microarray data in postmortem brain research. Neurobiology of Disease, 2005, 18, 649-655.	2.1	50
113	P75 neurotrophin receptor regulates expression of neural cell adhesion molecule 1. Neurobiology of Disease, 2005, 20, 969-985.	2.1	22
114	Environmental Enrichment Reduces AÎ2 Levels and Amyloid Deposition in Transgenic Mice. Cell, 2005, 120, 701-713.	13.5	821
115	True and false discovery in DNA microarray experiments: Transcriptome changes in the hippocampus of presenilin 1 mutant mice. Methods, 2005, 37, 261-273.	1.9	12
116	Transcriptome Differences Between the Frontal Cortex and Hippocampus of Wild-Type and Humanized Presenilin-1 Transgenic Mice. American Journal of Geriatric Psychiatry, 2005, 13, 1041-1051.	0.6	16
117	Transcriptome differences between the frontal cortex and hippocampus of wild-type and humanized presenilin-1 transgenic mice. American Journal of Geriatric Psychiatry, 2005, 13, 1041-51.	0.6	7
118	DNA Microarray Analysis of Postmortem Brain Tissue. International Review of Neurobiology, 2004, 60, 153-181.	0.9	23
119	Microarray Analysis of Lyn-Deficient B Cells Reveals Germinal Center-Associated Nuclear Protein and Other Genes Associated with the Lymphoid Germinal Center. Journal of Immunology, 2004, 172, 4133-4141.	0.4	18
120	Progress in the use of microarray technology to study the neurobiology of disease. Nature Neuroscience, 2004, 7, 434-439.	7.1	145
121	P4-277 The role of PS1 in P75 signaling. Neurobiology of Aging, 2004, 25, S554.	1.5	0
122	Heat shock protein 12A shows reduced expression in the prefrontal cortex of subjects with schizophrenia. Biological Psychiatry, 2004, 56, 943-950.	0.7	39
123	Transcriptomes in schizophrenia: assessing altered gene expression with microarrays. , 2004, , 210-223.		0
124	DNA microarray profiling of developing PS1-deficient mouse brain reveals complex and coregulated expression changes. Molecular Psychiatry, 2003, 8, 863-878.	4.1	29
125	Association and linkage analyses of RGS4 polymorphisms in schizophrenia. Human Molecular Genetics, 2003, 12, 1781-1781.	1.4	1
126	Gene Expression Deficits in a Subclass of GABA Neurons in the Prefrontal Cortex of Subjects with Schizophrenia. Journal of Neuroscience, 2003, 23, 6315-6326.	1.7	843

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127	Analysis of Brain Disorders Using DNA Microarrays. Research and Perspectives in Neurosciences, 2003, , 45-63.	0.4	0
128	Association and linkage analyses of RGS4 polymorphisms in schizophrenia. Human Molecular Genetics, 2002, 11, 1373-1380.	1.4	318
129	Gene Expression Profiling Reveals Alterations of Specific Metabolic Pathways in Schizophrenia. Journal of Neuroscience, 2002, 22, 2718-2729.	1.7	414
130	Gene expression profiling with DNA microarrays: advancing our understanding of psychiatric disorders. Neurochemical Research, 2002, 27, 1049-1063.	1.6	102
131	Microarrays in Brain Research: Data Quality and Limitations. Current Genomics, 2002, 3, 13-19.	0.7	6
132	Analysis of complex brain disorders with gene expression microarrays: schizophrenia as a disease of the synapse. Trends in Neurosciences, 2001, 24, 479-486.	4.2	383
133	Genes and subtypes of schizophrenia. Trends in Molecular Medicine, 2001, 7, 281-283.	3.5	34
134	Delineating Novel Signature Patterns of Altered Gene Expression in Schizophrenia Using Gene Microarrays. Scientific World Journal, The, 2001, 1, 114-116.	0.8	7
135	The Human Genome: Gene Expression Profiling and Schizophrenia. American Journal of Psychiatry, 2001, 158, 1384-1384.	4.0	16
136	Disease-specific changes in regulator of G-protein signaling 4 (RGS4) expression in schizophrenia. Molecular Psychiatry, 2001, 6, 293-301.	4.1	413
137	Microarrays in brain research: the good, the bad and the ugly. Nature Reviews Neuroscience, 2001, 2, 444-447.	4.9	72
138	DNA Microarrays and Human Brain Disorders. , 2001, , 171-204.		2
139	Molecular Characterization of Schizophrenia Viewed by Microarray Analysis of Gene Expression in Prefrontal Cortex. Neuron, 2000, 28, 53-67.	3.8	861
140	Ultrastructural Analysis of Ectopic Synaptic Boutons Arising From Peripherally Regenerated Primary Afferent Fibers. Journal of Neurophysiology, 1999, 81, 1636-1644.	0.9	36
141	Properties of Individual Embryonic Primary Afferents and Their Spinal Projections in the Rat. Journal of Neurophysiology, 1997, 78, 1590-1600.	0.9	20
142	Plasticity of dorsal horn cell receptive fields after peripheral nerve regeneration. Journal of Neurophysiology, 1996, 75, 2255-2267.	0.9	14
143	Prenatal development of rat primary afferent fibers: I. Peripheral projection. Journal of Comparative Neurology, 1995, 355, 589-600.	0.9	48
144	Prenatal development of rat primary afferent fibers: II. Central projections. Journal of Comparative Neurology, 1995, 355, 601-614.	0.9	105

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145	Morphology of functional long-ranging primary afferent projections in the cat spinal cord. Journal of Neurophysiology, 1995, 74, 2336-2348.	0.9	17
146	Properties of regenerated primary afferents and their functional connections. Journal of Neurophysiology, 1995, 73, 693-702.	0.9	24
147	Central sprouting and functional plasticity of regenerated primary afferents. Journal of Neuroscience, 1994, 14, 3655-3671.	1.7	160
148	Disease-specific changes in regulator of G-protein signaling 4 (RGS4) expression in schizophrenia. , 0, .		1