Carl Ernst

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3812556/publications.pdf

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50	3,259	218677	189892
papers	citations	26 h-index	50 g-index

55	55	55	6340
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sequencing Chromosomal Abnormalities Reveals Neurodevelopmental Loci that Confer Risk across Diagnostic Boundaries. Cell, 2012, 149, 525-537.	28.9	534
2	Neurons diversify astrocytes in the adult brain through sonic hedgehog signaling. Science, 2016, 351, 849-854.	12.6	221
3	Alternative Splicing, Methylation State, and Expression Profile of Tropomyosin-Related Kinase B in the Frontal Cortex of Suicide Completers. Archives of General Psychiatry, 2009, 66, 22.	12.3	206
4	Assessment of 2q23.1 Microdeletion Syndrome Implicates MBD5 as a Single Causal Locus of Intellectual Disability, Epilepsy, and Autism Spectrum Disorder. American Journal of Human Genetics, 2011, 89, 551-563.	6.2	195
5	Suicide neurobiology. Progress in Neurobiology, 2009, 89, 315-333.	5.7	161
6	Next-Generation Sequencing Strategies Enable Routine Detection of Balanced Chromosome Rearrangements for Clinical Diagnostics and Genetic Research. American Journal of Human Genetics, 2011, 88, 469-481.	6.2	154
7	Association of a History of Child Abuse With Impaired Myelination in the Anterior Cingulate Cortex: Convergent Epigenetic, Transcriptional, and Morphological Evidence. American Journal of Psychiatry, 2017, 174, 1185-1194.	7.2	146
8	Identification and function of long non-coding RNA. Frontiers in Cellular Neuroscience, 2013, 7, 168.	3.7	143
9	Transcriptional Consequences of 16p11.2 Deletion and Duplication in Mouse Cortex and Multiplex Autism Families. American Journal of Human Genetics, 2014, 94, 870-883.	6.2	116
10	Proliferation and Differentiation Deficits are a Major Convergence Point for Neurodevelopmental Disorders. Trends in Neurosciences, 2016, 39, 290-299.	8.6	112
11	Umap and Bismap: quantifying genome and methylome mappability. Nucleic Acids Research, 2018, 46, e120.	14.5	94
12	The effects of pH on DNA methylation state: In vitro and post-mortem brain studies. Journal of Neuroscience Methods, 2008, 174, 123-125.	2.5	73
13	A Dual Noradrenergic Mechanism for the Relief of Neuropathic Allodynia by the Antidepressant Drugs Duloxetine and Amitriptyline. Journal of Neuroscience, 2018, 38, 9934-9954.	3.6	73
14	Characterization of QKI Gene Expression, Genetics, and Epigenetics in Suicide Victims with Major Depressive Disorder. Biological Psychiatry, 2009, 66, 824-831.	1.3	67
15	Biomarker discovery: quantification of microRNAs and other small non-coding RNAs using next generation sequencing. BMC Medical Genomics, 2015, 8, 35.	1.5	67
16	Molecular Convergence of Neurodevelopmental Disorders. American Journal of Human Genetics, 2014, 95, 490-508.	6.2	64
17	Suicide and no axis I psychopathology. BMC Psychiatry, 2004, 4, 7.	2.6	62
18	Disruption of a Large Intergenic Noncoding RNA in Subjects with Neurodevelopmental Disabilities. American Journal of Human Genetics, 2012, 91, 1128-1134.	6.2	61

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19	Mutations in ACTL6B Cause Neurodevelopmental Deficits and Epilepsy and Lead to Loss of Dendrites in Human Neurons. American Journal of Human Genetics, 2019, 104, 815-834.	6.2	59
20	Disruption of GRIN2B Impairs Differentiation in Human Neurons. Stem Cell Reports, 2018, 11, 183-196.	4.8	53
21	Lesch-Nyhan Syndrome: Models, Theories, and Therapies. Molecular Syndromology, 2016, 7, 302-311.	0.8	52
22	Implication of LRRC4C and DPP6 in neurodevelopmental disorders. American Journal of Medical Genetics, Part A, 2017, 173, 395-406.	1.2	40
23	FOXG1 Dose in Brain Development. Frontiers in Pediatrics, 2019, 7, 482.	1.9	39
24	Characterizing 5-hydroxymethylcytosine in human prefrontal cortex at single base resolution. BMC Genomics, 2015, 16, 672.	2.8	38
25	DNA Methylation Dynamics and Cocaine in the Brain: Progress and Prospects. Genes, 2017, 8, 138.	2.4	37
26	A de novo frameshift mutation in chromodomain helicase DNAâ€binding domain 8 (CHD8): A case report and literature review. American Journal of Medical Genetics, Part A, 2016, 170, 1225-1235.	1.2	36
27	Human iPSC-derived Down syndrome astrocytes display genome-wide perturbations in gene expression, an altered adhesion profile, and increased cellular dynamics. Human Molecular Genetics, 2020, 29, 785-802.	2.9	30
28	Medium throughput bisulfite sequencing for accurate detection of 5-methylcytosine and 5-hydroxymethylcytosine. BMC Genomics, 2017, 18, 96.	2.8	29
29	Investigation of genes important in neurodevelopment disorders in adult human brain. Human Genetics, 2015, 134, 1037-1053.	3.8	28
30	Copy Number Variation in Subjects with Major Depressive Disorder Who Attempted Suicide. PLoS ONE, 2012, 7, e46315.	2.5	24
31	Non-CG methylation and multiple histone profiles associate child abuse with immune and small GTPase dysregulation. Nature Communications, 2021, 12, 1132.	12.8	24
32	Evidence That Substantia Nigra Pars Compacta Dopaminergic Neurons Are Selectively Vulnerable to Oxidative Stress Because They Are Highly Metabolically Active. Frontiers in Cellular Neuroscience, 2022, 16, 826193.	3.7	23
33	A new microdeletion syndrome involving TBC1D24, ATP6V0C, and PDPK1 causes epilepsy, microcephaly, and developmental delay. Genetics in Medicine, 2019, 21, 1058-1064.	2.4	22
34	Differentiation of Human Induced Pluripotent Stem Cells (iPSCs) into an Effective Model of Forebrain Neural Progenitor Cells and Mature Neurons. Bio-protocol, 2019, 9, e3188.	0.4	22
35	A Rapid Pipeline to Model Rare Neurodevelopmental Disorders with Simultaneous CRISPR/Cas9 Gene Editing. Stem Cells Translational Medicine, 2017, 6, 886-896.	3.3	19
36	Stimulation of L-type calcium channels increases tyrosine hydroxylase and dopamine in ventral midbrain cells induced from somatic cells. Stem Cells Translational Medicine, 2020, 9, 697-712.	3.3	17

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37	Cocaine-related DNA methylation in caudate neurons alters 3D chromatin structure of the IRXA gene cluster. Molecular Psychiatry, 2021, 26, 3134-3151.	7.9	15
38	Potential molecular consequences of transgene integration: The R6/2 mouse example. Scientific Reports, 2017, 7, 41120.	3.3	14
39	Putative Roles of SETBP1 Dosage on the SET Oncogene to Affect Brain Development. Frontiers in Neuroscience, 2022, 16, .	2.8	13
40	Lesch-Nyhan disease causes impaired energy metabolism and reduced developmental potential in midbrain dopaminergic cells. Stem Cell Reports, 2021, 16, 1749-1762.	4.8	11
41	BisQC: an operational pipeline for multiplexed bisulfite sequencing. BMC Genomics, 2014, 15, 290.	2.8	10
42	Epigenetic priming in neurodevelopmental disorders. Trends in Molecular Medicine, 2021, 27, 1106-1114.	6.7	9
43	Comparative Analysis of Self-Injury in People with Psychopathology or Neurodevelopmental Disorders. Pediatric Clinics of North America, 2015, 62, 619-631.	1.8	8
44	Methylation of the tyrosine hydroxylase gene is dysregulated by cocaine dependence in the human striatum. IScience, 2021, 24, 103169.	4.1	8
45	A roadmap for neurodevelopmental disease modeling for nonâ€stem cell biologists. Stem Cells Translational Medicine, 2020, 9, 567-574.	3.3	6
46	Strategies to Advance Drug Discovery in Rare Monogenic Intellectual Disability Syndromes. International Journal of Neuropsychopharmacology, 2018, 21, 201-206.	2.1	5
47	FOXG1 dose tunes cell proliferation dynamics in human forebrain progenitor cells. Stem Cell Reports, 2022, 17, 475-488.	4.8	4
48	Self-injurious behaviours in people with and without intellectual delay: implications for the genetics of suicide. International Journal of Neuropsychopharmacology, 2010, 13, 527.	2.1	3
49	Kabuki syndrome stem cell models reveal locus specificity of histone methyltransferase 2D (KMT2D/MLL4). Human Molecular Genetics, 2022, 31, 3715-3728.	2.9	2
50	Cover Image, Volume 173A, Number 2, February 2017. American Journal of Medical Genetics, Part A, 2017, 173, i.	1.2	0