Orly Reiner

List of Publications by Year
in descending order

115 papers	11,301 citations	57758 44 h-index	29157 104 g-index
180 all docs	180 docs citations	180 times ranked	10524 citing authors

#	Article	IF	Citations
1	Identification of a gene (FMR-1) containing a CGG repeat coincident with a breakpoint cluster region exhibiting length variation in fragile X syndrome. Cell, 1991, 65, 905-914.	28.9	3,285
2	Isolation of a Millerâ€“Dicker lissencephaly gene containing G protein Î²-subunit-like repeats. Nature, 1993, 364, 717-721.	27.8	1,036
3	Doublecortin Is a Developmentally Regulated, Microtubule-Associated Protein Expressed in Migrating and Differentiating Neurons. Neuron, 1999, 23, 247-256.	8.1	936
4	The human glucocerebrosidase gene and pseudogene: Structure and evolution. Genomics, 1989, 4, 87-96.	2.9	396
5	Human brain organoids on a chip reveal the physics of folding. Nature Physics, 2018, 14, 515-522.	16.7	311
6	Reduction of microtubule catastrophe events by LIS1, platelet-activating factor acetylhydrolase subunit. EMBO Journal, 1997, 16, 6977-6984.	7.8	282
7	Doublecortin, a Stabilizer of Microtubules. Human Molecular Genetics, 1999, 8, 1599-1610.	2.9	245
8	LIS1, CLIP-170's Key to the Dynein/Dynactin Pathway. Molecular and Cellular Biology, 2002, 22, 3089-3102.	2.3	222
9	DCX, a new mediator of the JNK pathway. EMBO Journal, 2004, 23, 823-832.	7.8	200
10	Increased LIS1 expression affects human and mouse brain development. Nature Genetics, 2009, 41, 168-177.	21.4	199
11	Folding of Proteins with WD-Repeats:â€‰ Comparison of Six Members of the WD-Repeat Superfamily to the G Protein Î² Subunit. Biochemistry, 1996, 35, 13985-13994.	2.5	178
12	Targeted mutagenesis of <i>Lis1</i> disrupts cortical development and LIS1 homodimerization. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 6429-6434.	7.1	139
13	Interaction between LIS1 and doublecortin, two lissencephaly gene products. Human Molecular Genetics, 2000, 9, 2205-2213.	2.9	138
14	The lissencephaly gene product Lis1, a protein involved in neuronal migration, interacts with a nuclear movement protein, NudC. Current Biology, 1998, 8, 603-606.	3.9	135
15	Doublecortin-like Kinase Controls Neurogenesis by Regulating Mitotic Spindles and M Phase Progression. Neuron, 2006, 49, 25-39.	8.1	131
16	Doublecortin mutations cluster in evolutionarily conserved functional domains. Human Molecular Genetics, 2000, 9, 703-712.	2.9	115
17	Lissencephaly gene (LIS1) expression in the CNS suggests a role in neuronal migration. Journal of Neuroscience, 1995, 15, 3730-3738.	3.6	113
18	The Structure of the N-Terminal Domain of the Product of the Lissencephaly Gene Lis1 and Its Functional Implications. Structure, 2004, 12, 987-998.	3.3	106

#	Article	IF	Citations
19	The evolving doublecortin (DCX) superfamily. BMC Genomics, 2006, 7, 188.	2.8	100
20	Accurate Balance of the Polarity Kinase MARK2/Par-1 Is Required for Proper Cortical Neuronal Migration. Journal of Neuroscience, 2008, 28, 5710-5720.	3.6	100
21	Regulation of neuronal migration, an emerging topic in autism spectrum disorders. Journal of Neurochemistry, 2016, 136, 440-456.	3.9	89
22	LIS1 functions in normal development and disease. Current Opinion in Neurobiology, 2013, 23, 951-956.	4.2	87
23	Doublecortin-like Kinase Is Associated with Microtubules in Neuronal Growth Cones. Molecular and Cellular Neurosciences, 2000, 16, 529-541.	2.2	83
24	Developmental activities of the complement pathway in migrating neurons. Nature Communications, 2017, 8, 15096.	12.8	83
25	Cortical progenitor biology: key features mediating proliferation versus differentiation. Journal of Neurochemistry, 2018, 146, 500-525.	3.9	77
26	Novel Functional Features of the LIS-H Domain: Role in Protein Dimerization, Half-Life and Cellular Localization. Cell Cycle, 2005, 4, 1632-1640.	2.6	74
27	Alternative Splice Variants of Doublecortin-like Kinase Are Differentially Expressed and Have Different Kinase Activities. Journal of Biological Chemistry, 2002, 277, 17696-17705.	3.4	73
28	KIAA0369, doublecortin-like kinase, is expressed during brain development. Journal of Neuroscience Research, 1999, 58, 567-575.	2.9	72
29	LIS1â€”no more no less. Molecular Psychiatry, 2002, 7, 12-16.	7.9	70
30	Tau's role in the developing brain: implications for intellectual disability. Human Molecular Genetics, 2012, 21, 1681-1692.	2.9	69
31	Evidence for the involvement of the hippocampus in the pathophysiology of schizophrenia. European Neuropsychopharmacology, 2000, 10, 389-395.	0.7	66
32	Complement System in Brain Architecture and Neurodevelopmental Disorders. Frontiers in Neuroscience, 2020, 14, 23.	2.8	66
33	Stress-Activated Protein Kinase MKK7 Regulates Axon Elongation in the Developing Cerebral Cortex. Journal of Neuroscience, 2011, 31, 16872-16883.	3.6	64
34	The DCX Superfamily 1: Common and Divergent Roles for Members of the Mouse DCX Superfamily. Cell Cycle, 2006, 5, 976-983.	2.6	62
35	LIS1. Neuron, 2000, 28, 633-636.	8.1	56
36	LIS1 is a microtubule-associated phosphoprotein. FEBS Journal, 1999, 265, 181-188.	0.2	53

#	Article	IF	Citations
37	International consensus recommendations on the diagnostic work-up for malformations of cortical development. Nature Reviews Neurology, 2020, 16, 618-635.	10.1	53
38	A JIP3-Regulated GSK3Î²/DCX Signaling Pathway Restricts Axon Branching. Journal of Neuroscience, 2010, 30, 16766-16776.	3.6	51
39	Antagonistic Effects of Doublecortin and MARK2/Par-1 in the Developing Cerebral Cortex. Journal of Neuroscience, 2008, 28, 13008-13013.	3.6	50
40	Doublecortin Supports the Development of Dendritic Arbors in Primary Hippocampal Neurons. Developmental Neuroscience, 2008, 30, 187-199.	2.0	50
41	Shootin1 Acts in Concert with KIF20B to Promote Polarization of Migrating Neurons. Journal of Neuroscience, 2013, 33, 11932-11948.	3.6	50
42	Migration Cues Induce Chromatin Alterations. Traffic, 2007, 8, 1521-1529.	2.7	49
43	Ndel1 palmitoylation: a new mean to regulate cytoplasmic dynein activity. EMBO Journal, 2010, 29, 107-119.	7.8	49
44	Cleavage of Doublecortin-like Kinase by Calpain Releases an Active Kinase Fragment from a Microtubule Anchorage Domain. Journal of Biological Chemistry, 2001, 276, 36397-36403.	3.4	48
45	Variations in genes regulating neuronal migration predict reduced prefrontal cognition in schizophrenia and bipolar subjects from mediterranean Spain: A preliminary study. Neuroscience, 2006, 139, 1289-1300.	2.3	47
46	Site-specific dephosphorylation of doublecortin (DCX) by protein phosphatase 1 (PP1). Molecular and Cellular Neurosciences, 2006, 32, 15-26.	2.2	46
47	Polarity Regulation in Migrating Neurons in the Cortex. Molecular Neurobiology, 2009, 40, 1-14.	4.0	46
48	Structural Analysis of the Human Glucocerebrosidase Genes. DNA and Cell Biology, 1988, 7, 107-116.	5.2	45
49	Brain Organoidsâ€"A Bottom-Up Approach for Studying Human Neurodevelopment. Bioengineering, 2019, 6, 9.	3.5	45
50	LIS1 and DCX: Implications for Brain Development and Human Disease in Relation to Microtubules. Scientifica, 2013, 2013, 1-17.	1.7	43
51	Linking cytoplasmic dynein and transport of Rab8 vesicles to the midbody during cytokinesis by the doublecortin domain-containing 5 protein. Journal of Cell Science, 2011, 124, 3989-4000.	2.0	41
52	Passage Number is a Major Contributor to Genomic Structural Variations in Mouse iPSCs. Stem Cells, 2014, 32, 2657-2667.	3.2	40
53	EfficientIn VitroandIn VivoExpression of Human Glucocerebrosidase cDNA. DNA and Cell Biology, 1987, 6, 101-108.	5.2	39
54	Binding of microtubule-associated protein 1B to LIS1 affects the interaction between dynein and LIS1. Biochemical Journal, 2005, 389, 333-341.	3.7	38

#	Article	IF	Citations
55	Lissencephaly 1 Linking to Multiple Diseases: Mental Retardation, Neurodegeneration, Schizophrenia, Male Sterility, and More. NeuroMolecular Medicine, 2006, 8, 547-566.	3.4	37
56	The Spinal Muscular Atrophy with Pontocerebellar Hypoplasia Gene<i>VRK1</i>Regulates Neuronal Migration through an Amyloid-Î² Precursor Protein-Dependent Mechanism. Journal of Neuroscience, 2015, 35, 936-942.	3.6	36
57	Microtubule dynamics alter the interphase nucleus. Cellular and Molecular Life Sciences, 2013, 70, 1255-1268.	5.4	34
58	Analysis of lissencephaly-causingLIS1mutations. FEBS Journal, 1999, 266, 1011-1020.	0.2	33
59	DCX in PC12 cells: CREB-mediated transcription and neurite outgrowth. Human Molecular Genetics, 2001, 10, 1061-1070.	2.9	33
60	Serping1/C1 Inhibitor Affects Cortical Development in a Cell Autonomous and Non-cell Autonomous Manner. Frontiers in Cellular Neuroscience, 2017, 11, 169.	3.7	32
61	The HERV-K accessory protein Np9 controls viability and migration of teratocarcinoma cells. PLoS ONE, 2019, 14, e0212970.	2.5	32
62	Differential expression of the human glucocerebrosidase-coding gene. Gene, 1988, 73, 469-478.	2.2	31
63	Interkinetic Nuclear Movement in the Ventricular Zone of the Cortex. Journal of Molecular Neuroscience, 2012, 46, 516-526.	2.3	30
64	LIS1 Missense Mutations. Journal of Biological Chemistry, 2003, 278, 38740-38748.	3.4	29
65	HIV-1 Tat interacts with LIS1 protein. Retrovirology, 2005, 2, 6.	2.0	29
66	Reversible Cysteine Acylation Regulates the Activity of Human Palmitoyl-Protein Thioesterase 1 (PPT1). PLoS ONE, 2016, 11, e0146466.	2.5	29
67	Constitutive activation of canonical Wnt signaling disrupts choroid plexus epithelial fate. Nature Communications, 2022, 13, 633.	12.8	28
68	DCXs Phosphorylation by Not Just aNother Kinase (JNK). Cell Cycle, 2004, 3, 745-749.	2.6	27
69	MARK2/Par-1 guides the directionality of neuroblasts migrating to the olfactory bulb. Molecular and Cellular Neurosciences, 2012, 49, 97-103.	2.2	27
70	Homologs of the ?- and ?-subunits of mammalian brain platelet-activating factor acetylhydrolase Ib in theDrosophila melanogaster genome. , 2000, 39, 1-8.		25
71	The Interactome of Palmitoyl-Protein Thioesterase 1 (PPT1) Affects Neuronal Morphology and Function. Frontiers in Cellular Neuroscience, 2019, 13, 92.	3.7	25
72	Loss of PAFAH1B2 Reduces Amyloid-Î² Generation by Promoting the Degradation of Amyloid Precursor Protein C-Terminal Fragments. Journal of Neuroscience, 2012, 32, 18204-18214.	3.6	23

#	Article	IF	Citations
73	Four STR polymorphisms map to a 500 kb region between DXS15 and DXS134. Human Molecular Genetics, 1993, 2, 1503-1503.	2.9	22
74	A study of the nature of embryonic lethality in <i>LIS1</i>^{â^’/â^’} Mice. Molecular Reproduction and Development, 2003, 66, 134-142.	2.0	22
75	PAF-AH catalytic subunits modulate the Wnt pathway in developing GABAergic neurons. Frontiers in Cellular Neuroscience, 2010, 4, .	3.7	22
76	Non-cell autonomous and non-catalytic activities of ATX in the developing brain. Frontiers in Neuroscience, 2015, 9, 53.	2.8	21
77	Dynamics of cortical progenitors and production of subcerebral neurons are altered in embryos of a maternal inflammation model for autism. Molecular Psychiatry, 2021, 26, 1535-1550.	7.9	19
78	Platelet-activating factor (PAF) acetylhydrolase activity, LIS1 expression, and seizures. Journal of Neuroscience Research, 1999, 57, 176-184.	2.9	18
79	LIS2,Gene and Pseudogene, Homologous toLIS1(Lissencephaly 1), Located on the Short and Long Arms of Chromosome 2. Genomics, 1995, 30, 251-256.	2.9	17
80	Postnatal alterations of the inhibitory synaptic responses recorded from cortical pyramidal neurons in the Lis1/sLis1 mutant mouse. Molecular and Cellular Neurosciences, 2007, 35, 220-229.	2.2	16
81	Modeling the autistic cell: iPSCs recapitulate developmental principles of syndromic and nonsyndromic ASD. Development Growth and Differentiation, 2016, 58, 481-491.	1.5	16
82	Using multi-organ culture systems to study Parkinsonâ€™s disease. Molecular Psychiatry, 2021, 26, 725-735.	7.9	16
83	Neuronal Migration and Neurodegeneration: 2 Sides of the Same Coin. Cerebral Cortex, 2009, 19, i42-i48.	2.9	15
84	Toward Spatial Identities in Human Brain Organoids-on-Chip Induced by Morphogen-Soaked Beads. Bioengineering, 2020, 7, 164.	3.5	15
85	Mark/Par-1 Marking the Polarity of Migrating Neurons. Advances in Experimental Medicine and Biology, 2014, 800, 97-111.	1.6	15
86	The unfolding story of two lissencephaly genes and brain development. Molecular Neurobiology, 1999, 20, 143-156.	4.0	14
87	Missense mutations resulting in type 1 lissencephaly. Cellular and Molecular Life Sciences, 2005, 62, 425-434.	5.4	14
88	Proteomics insights into infantile neuronal ceroid lipofuscinosis (CLN1) point to the involvement of cilia pathology in the disease. Human Molecular Genetics, 2017, 26, 1678-1678.	2.9	14
89	An Onâ€Chip Method for Longâ€Term Growth and Realâ€Time Imaging of Brain Organoids. Current Protocols in Cell Biology, 2018, 81, e62.	2.3	14
90	Ndel1-derived peptides modulate bidirectional transport of injected beads in the squid giant axon. Biology Open, 2012, 1, 220-231.	1.2	13

#	Article	IF	Citations
91	Complement C3 Affects Rac1 Activity in the Developing Brain. Frontiers in Molecular Neuroscience, 2018, 11, 150.	2.9	13
92	DCX's phosphorylation by not just another kinase (JNK). Cell Cycle, 2004, 3, 747-51.	2.6	13
93	LIS1 and platelet-activating factor acetylhydrolase (Ib) catalytic subunits, expression in the mouse oocyte and zygote. FEBS Letters, 1999, 451, 99-102.	2.8	12
94	Interplay of LIS1 and MeCP2: Interactions and Implications With the Neurodevelopmental Disorders Lissencephaly and Rett Syndrome. Frontiers in Cellular Neuroscience, 2019, 13, 370.	3.7	12
95	Notch Activation by Shootin1 Opposing Activities on 2 Ubiquitin Ligases. Cerebral Cortex, 2018, 28, 3115-3128.	2.9	9
96	Similarities and Differences Between the Wnt and Reelin Pathways in the Forming Brain. Molecular Neurobiology, 2005, 31, 117-134.	4.0	8
97	A Coated Sponge: Toward Neonatal Brain Repair. Cell Stem Cell, 2018, 22, 3-4.	11.1	8
98	Brain Organization and Human Diseases. Cells, 2022, 11, 1642.	4.1	8
99	Use of RNA Interference by In Utero Electroporation to Study Cortical Development: The Example of the Doublecortin Superfamily. Genes, 2012, 3, 759-778.	2.4	6
100	Generation of Topically Transgenic Rats by In utero Electroporation and In vivo Bioluminescence Screening. Journal of Visualized Experiments, 2013, , e50146.	0.3	6
101	Cdk5 checks p27kip1 in neuronal migration. Nature Cell Biology, 2006, 8, 11-13.	10.3	4
102	Modeling human neuronal migration deficits in 3D. Current Opinion in Neurobiology, 2021, 66, 30-36.	4.2	4
103	Expression of chLIS1, a chicken homolog of LIS1. Development Genes and Evolution, 2000, 210, 51-54.	0.9	3
104	Building Bridges Between the Clinic and the Laboratory: A Meeting Review â€“ Brain Malformations: A Roadmap for Future Research. Frontiers in Cellular Neuroscience, 2019, 13, 434.	3.7	3
105	Function of 14-3-3 proteins. Nature, 1996, 382, 308-308.	27.8	2
106	Pathways of neuronal migration. Nature Genetics, 2002, 32, 341-342.	21.4	1
107	Nucleokinesis. , 2020, , 305-322.		1
108	Use of iPSC-derived brain organoids to study human brain evolution. , 2021, , 157-177.		1

#	Article	IF	Citations
109	Isolation of a Millerâ€"Dicker lissencephaly gene containing G protein Î²-subunit-like repeats. , 0, .		1
110	Mutations in genes regulating neuronal migration predict reduced prefrontal cognition in schizophrenia and bipolar disorder: a preliminary study. Annals of General Psychiatry, 2006, 5, 1.	2.7	0
111	Gene trapping: An antibody-dependent approach for verifying integration in your favorite gene. Cellular and Molecular Biology Letters, 2008, 13, 614-20.	7.0	0
112	Nucleokinesis. , 2013, , 261-279.		0
113	Brain organoids as a model system for human neurodevelopment in health and disease. , 2020, , 205-221.		0
114	Editorial: Complement in the Development and Regeneration of the Nervous System. Frontiers in Immunology, 2021, 12, 694810.	4.8	0
115	Introducing <i>Oxford Open Neuroscience</i>. , 2022, 1, .		0