Iryna M Ethell

List of Publications by Year
in descending order

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65	6,724	81839	114418
papers	citations	39 h-index	63 g-index

67	67	67	6950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ca2+-Induced Apoptosis Through Calcineurin Dephosphorylation of BAD. Science, 1999, 284, 339-343.	6.0	1,073
2	Minocycline promotes dendritic spine maturation and improves behavioural performance in the fragile X mouse model. Journal of Medical Genetics, 2008, 46, 94-102.	1.5	387
3	Matrix metalloproteinases in brain development and remodeling: Synaptic functions and targets. Journal of Neuroscience Research, 2007, 85, 2813-2823.	1.3	337
4	Molecular mechanisms of dendritic spine development and remodeling. Progress in Neurobiology, 2005, 75, 161-205.	2.8	307
5	EphB/Syndecan-2 Signaling in Dendritic Spine Morphogenesis. Neuron, 2001, 31, 1001-1013.	3.8	291
6	Multiple EphB receptor tyrosine kinases shape dendritic spines in the hippocampus. Journal of Cell Biology, 2003, 163, 1313-1326.	2.3	271
7	Cell Surface Heparan Sulfate Proteoglycan Syndecan-2 Induces the Maturation of Dendritic Spines in Rat Hippocampal Neurons. Journal of Cell Biology, 1999, 144, 575-586.	2.3	201
8	GRIP1 controls dendrite morphogenesis by regulating EphB receptor trafficking. Nature Neuroscience, 2005, 8, 906-915.	7.1	199
9	Open-label add-on treatment trial of minocycline in fragile X syndrome. BMC Neurology, 2010, 10, 91.	0.8	197
10	Integrins Control Dendritic Spine Plasticity in Hippocampal Neurons through NMDA Receptor and Ca2+/Calmodulin-Dependent Protein Kinase II-Mediated Actin Reorganization. Journal of Neuroscience, 2006, 26, 1813-1822.	1.7	180
11	A delicate balance: role of MMP-9 in brain development and pathophysiology of neurodevelopmental disorders. Frontiers in Cellular Neuroscience, 2015, 9, 280.	1.8	175
12	NGF and Neurotrophin-3 Both Activate TrkA on Sympathetic Neurons but Differentially Regulate Survival and Neuritogenesis. Journal of Cell Biology, 1997, 136, 375-388.	2.3	163
13	Focal Adhesion Kinase Acts Downstream of EphB Receptors to Maintain Mature Dendritic Spines by Regulating Cofilin Activity. Journal of Neuroscience, 2009, 29, 8129-8142.	1.7	139
14	Genetic Removal of Matrix Metalloproteinase 9 Rescues the Symptoms of Fragile X Syndrome in a Mouse Model. Journal of Neuroscience, 2014, 34, 9867-9879.	1.7	139
15	GLT-1-Dependent Disruption of CNS Glutamate Homeostasis and Neuronal Function by the Protozoan Parasite Toxoplasma gondii. PLoS Pathogens, 2016, 12, e1005643.	2.1	138
16	The Perineuronal â€˜Safetyâ€™ Net? Perineuronal Net Abnormalities in Neurological Disorders. Frontiers in Molecular Neuroscience, 2018, 11, 270.	1.4	125
17	Synbindin, a Novel Syndecan-2â€“Binding Protein in Neuronal Dendritic Spines. Journal of Cell Biology, 2000, 151, 53-68.	2.3	118
18	Cofilin under control of Î²-arrestin-2 in NMDA-dependent dendritic spine plasticity, long-term depression (LTD), and learning. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E442-51.	3.3	117

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19	Minocycline treatment reverses ultrasonic vocalization production deficit in a mouse model of Fragile X Syndrome. Brain Research, 2012, 1439, 7-14.	1.1	113
20	Genetic Reduction of Matrix Metalloproteinase-9 Promotes Formation of Perineuronal Nets Around Parvalbumin-Expressing Interneurons and Normalizes Auditory Cortex Responses in Developing Fmr1 Knock-Out Mice. Cerebral Cortex, 2018, 28, 3951-3964.	1.6	110
21	The Proteoglycan Lectin Domain Binds Sulfated Cell Surface Glycolipids and Promotes Cell Adhesion. Journal of Biological Chemistry, 1999, 274, 11431-11438.	1.6	106
22	A Rose by Any Other Name? The Potential Consequences of Microglial Heterogeneity During CNS Health and Disease. Neurotherapeutics, 2007, 4, 571-579.	2.1	104
23	Translation-relevant EEG phenotypes in a mouse model of Fragile X Syndrome. Neurobiology of Disease, 2018, 115, 39-48.	2.1	102
24	EphB Receptors Regulate Dendritic Spine Morphogenesis through the Recruitment/Phosphorylation of Focal Adhesion Kinase and RhoA Activation. Journal of Biological Chemistry, 2006, 281, 1587-1598.	1.6	94
25	Ephrin-B2-induced Cleavage of EphB2 Receptor Is Mediated by Matrix Metalloproteinases to Trigger Cell Repulsion. Journal of Biological Chemistry, 2008, 283, 28969-28979.	1.6	90
26	Side Effects of Minocycline Treatment in Patients With Fragile X Syndrome and Exploration of Outcome Measures. American Journal on Intellectual and Developmental Disabilities, 2010, 115, 433-443.	0.8	90
27	Matrix metalloproteinase-9 deletion rescues auditory evoked potential habituation deficit in a mouse model of Fragile X Syndrome. Neurobiology of Disease, 2016, 89, 126-135.	2.1	88
28	Sensory Processing Phenotypes in Fragile X Syndrome. ASN Neuro, 2018, 10, 175909141880109.	1.5	88
29	Matrix metalloproteinase-7 disrupts dendritic spines in hippocampal neurons through NMDA receptor activation. Journal of Neurochemistry, 2006, 97, 44-56.	2.1	87
30	The EphB4 Receptor-tyrosine Kinase Promotes the Migration of Melanoma Cells through Rho-mediated Actin Cytoskeleton Reorganization. Journal of Biological Chemistry, 2006, 281, 32574-32586.	1.6	81
31	Cortical interneurons in autism. Nature Neuroscience, 2021, 24, 1648-1659.	7.1	68
32	Casting a net on dendritic spines: The extracellular matrix and its receptors. Developmental Neurobiology, 2011, 71, 956-981.	1.5	64
33	Astrocytic Ephrin-B1 Regulates Synapse Remodeling Following Traumatic Brain Injury. ASN Neuro, 2016, 8, 175909141663022.	1.5	60
34	Diet-Induced Obesity Elicits Macrophage Infiltration and Reduction in Spine Density in the Hypothalami of Male but Not Female Mice. Frontiers in Immunology, 2018, 9, 1992.	2.2	58
35	Functional Consequences of Synapse Remodeling Following Astrocyte-Specific Regulation of Ephrin-B1 in the Adult Hippocampus. Journal of Neuroscience, 2018, 38, 5710-5726.	1.7	58
36	Deletion of Fmr1 from Forebrain Excitatory Neurons Triggers Abnormal Cellular, EEG, and Behavioral Phenotypes in the Auditory Cortex of a Mouse Model of Fragile X Syndrome. Cerebral Cortex, 2020, 30, 969-988.	1.6	55

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37	Dendritic Plasticity in the Adult Neocortex. Neuroscientist, 2006, 12, 16-28.	2.6	48
38	Developmental Changes in EEG Phenotypes in a Mouse Model of Fragile X Syndrome. Neuroscience, 2019, 398, 126-143.	1.1	47
39	Multielectrode array analysis of EEG biomarkers in a mouse model of Fragile X Syndrome. Neurobiology of Disease, 2020, 138, 104794.	2.1	47
40	Looking forward to EphB signaling in synapses. Seminars in Cell and Developmental Biology, 2012, 23, 75-82.	2.3	43
41	Potent and Selective EphA4 Agonists for the Treatment of ALS. Cell Chemical Biology, 2017, 24, 293-305.	2.5	42
42	Acute pharmacological inhibition of matrix metalloproteinaseâ€9 activity during development restores perineuronal net formation and normalizes auditory processing in Fmr1 KO mice. Journal of Neurochemistry, 2020, 155, 538-558.	2.1	41
43	Carbohydrate-protein interactions between HNK-1-reactive sulfoglucuronyl glycolipids and the proteoglycan lectin domain mediate neuronal cell adhesion and neurite outgrowth. Journal of Neurochemistry, 2001, 76, 413-424.	2.1	39
44	Accelerators, Brakes, and Gears of Actin Dynamics in Dendritic Spines. The Open Neuroscience Journal, 2009, 3, 67-86.	0.8	36
45	Reduced perineuronal net expression in Fmr1 KO mice auditory cortex and amygdala is linked to impaired fear-associated memory. Neurobiology of Learning and Memory, 2019, 164, 107042.	1.0	25
46	Astrocytic Ephrin-B1 Controls Synapse Formation in the Hippocampus During Learning and Memory. Frontiers in Synaptic Neuroscience, 2020, 12, 10.	1.3	23
47	The EphB4 receptor promotes the growth of melanoma cells expressing the ephrinâ€B2 ligand. Pigment Cell and Melanoma Research, 2010, 23, 684-687.	1.5	22
48	Reversal of ultrasonic vocalization deficits in a mouse model of Fragile X Syndrome with minocycline treatment or genetic reduction of MMP-9. Behavioural Brain Research, 2019, 372, 112068.	1.2	22
49	Astrocytic Ephrin-B1 Controls Excitatory-Inhibitory Balance in Developing Hippocampus. Journal of Neuroscience, 2020, 40, 6854-6871.	1.7	22
50	Reusable Multielectrode Array Technique for Electroencephalography in Awake Freely Moving Mice. Frontiers in Integrative Neuroscience, 2018, 12, 53.	1.0	21
51	Neural Correlates of Auditory Hypersensitivity in Fragile X Syndrome. Frontiers in Psychiatry, 2021, 12, 720752.	1.3	21
52	Ultrastructural Identification of Storage Compartments and Localization of Activity-Dependent Secretion of Neurotrophin 6 in Hippocampal Neurons. Molecular and Cellular Neurosciences, 2000, 15, 215-234.	1.0	20
53	Genetic reduction of MMP-9 in the Fmr1 KO mouse partially rescues prepulse inhibition of acoustic startle response. Brain Research, 2019, 1719, 24-29.	1.1	20
54	Beneficial effects of sound exposure on auditory cortex development in a mouse model of Fragile X Syndrome. Neurobiology of Disease, 2020, 134, 104622.	2.1	18

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55	Abnormal development of auditory responses in the inferior colliculus of a mouse model of Fragile X Syndrome. Journal of Neurophysiology, 2020, 123, 2101-2121.	0.9	17
56	Minocycline Treatment Reverses Sound Evoked EEG Abnormalities in a Mouse Model of Fragile X Syndrome. Frontiers in Neuroscience, 2020, 14, 771.	1.4	16
57	Eph Receptors Are Involved in the Activity-Dependent Synaptic Wiring in the Mouse Cerebellar Cortex. PLoS ONE, 2011, 6, e19160.	1.1	14
58	Urokinase plasminogen activator mediates changes in human astrocytes modeling fragile X syndrome. Glia, 2021, 69, 2947-2962.	2.5	12
59	Functional consequences of postnatal interventions in a mouse model of Fragile X syndrome. Neurobiology of Disease, 2022, 162, 105577.	2.1	9
60	Increased 2-arachidonoyl-sn-glycerol levels normalize cortical responses to sound and improve behaviors in Fmr1 KO mice. Journal of Neurodevelopmental Disorders, 2021, 13, 47.	1.5	7
61	NMR-Guided Design of Potent and Selective EphA4 Agonistic Ligands. Journal of Medicinal Chemistry, 2021, 64, 11229-11246.	2.9	6
62	Automated spatio-temporal analysis of dendritic spines and related protein dynamics. PLoS ONE, 2017, 12, e0182958.	1.1	5
63	Optogenetics to target actin-mediated synaptic loss in Alzheimer's. , 2013, , .		4
64	A Method to Regulate Cofilin Transport Using Optogenetics and Live Video Analysis. Computational Biology, 2015, , 265-279.	0.1	1
65	Spatio-temporal pattern recognition of dendritic spines and protein dynamics using live multichannel fluorescence microscopy. , 2016, , .		1