

Dion Dickman

List of Publications by Year in descending order

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47
papers

2,376
citations

218677

26
h-index

243625

44
g-index

57
all docs

57
docs citations

57
times ranked

2384
citing authors

#	ARTICLE	IF	CITATIONS
1	The Schizophrenia Susceptibility Gene <i>dysbindin</i> Controls Synaptic Homeostasis. <i>Science</i> , 2009, 326, 1127-1130.	12.6	195
2	A Slowed Classical Pathway Rather Than Kiss-and-Run Mediates Endocytosis at Synapses Lacking Synaptojanin and Endophilin. <i>Cell</i> , 2005, 123, 521-533.	28.9	176
3	Altered Synaptic Development and Active Zone Spacing in Endocytosis Mutants. <i>Current Biology</i> , 2006, 16, 591-598.	3.9	160
4	A <i>Drosophila</i> kinesin required for synaptic bouton formation and synaptic vesicle transport. <i>Nature Neuroscience</i> , 2007, 10, 980-989.	14.8	144
5	Emerging links between homeostatic synaptic plasticity and neurological disease. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 223.	3.7	117
6	Endostatin Is a Trans-Synaptic Signal for Homeostatic Synaptic Plasticity. <i>Neuron</i> , 2014, 83, 616-629.	8.1	98
7	Rapid active zone remodeling consolidates presynaptic potentiation. <i>Nature Communications</i> , 2019, 10, 1085.	12.8	97
8	A Hierarchy of Cell Intrinsic and Target-Derived Homeostatic Signaling. <i>Neuron</i> , 2010, 66, 220-234.	8.1	88
9	Endogenous tagging reveals differential regulation of Ca ²⁺ channels at single AZs during presynaptic homeostatic potentiation and depression. <i>Journal of Neuroscience</i> , 2019, 39, 3068-18.	3.6	81
10	Mutations in a <i>Drosophila</i> Ca_v2 Voltage-Gated Calcium Channel Subunit Reveal a Crucial Synaptic Function. <i>Journal of Neuroscience</i> , 2008, 28, 31-38.	3.6	74
11	Homeostatic scaling of active zone scaffolds maintains global synaptic strength. <i>Journal of Cell Biology</i> , 2019, 218, 1706-1724.	5.2	66
12	Mapping sites responsible for interactions of agrin with neurons. <i>Journal of Neurochemistry</i> , 2002, 83, 271-284.	3.9	62
13	A Presynaptic Glutamate Receptor Subunit Confers Robustness to Neurotransmission and Homeostatic Potentiation. <i>Cell Reports</i> , 2017, 19, 2694-2706.	6.4	60
14	Snapin is Critical for Presynaptic Homeostatic Plasticity. <i>Journal of Neuroscience</i> , 2012, 32, 8716-8724.	3.6	58
15	Homeostatic plasticity can be induced and expressed to restore synaptic strength at neuromuscular junctions undergoing ALS-related degeneration. <i>Human Molecular Genetics</i> , 2017, 26, 4153-4167.	2.9	56
16	Development of a tissue-specific ribosome profiling approach in <i>Drosophila</i> enables genome-wide evaluation of translational adaptations. <i>PLoS Genetics</i> , 2017, 13, e1007117.	3.5	56
17	Extended Synaptotagmin Localizes to Presynaptic ER and Promotes Neurotransmission and Synaptic Growth in <i>Drosophila</i> . <i>Genetics</i> , 2017, 207, 993-1006.	2.9	55
18	Disparate Postsynaptic Induction Mechanisms Ultimately Converge to Drive the Retrograde Enhancement of Presynaptic Efficacy. <i>Cell Reports</i> , 2017, 21, 2339-2347.	6.4	54

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19	Synapse-specific and compartmentalized expression of presynaptic homeostatic potentiation. <i>ELife</i> , 2018, 7, .	6.0	52
20	The Innate Immune Receptor PGRP-LC Controls Presynaptic Homeostatic Plasticity. <i>Neuron</i> , 2015, 88, 1157-1164.	8.1	48
21	Gene Dosage in the Dysbindin Schizophrenia Susceptibility Network Differentially Affect Synaptic Function and Plasticity. <i>Journal of Neuroscience</i> , 2015, 35, 325-338.	3.6	43
22	MCTP is an ER-resident calcium sensor that stabilizes synaptic transmission and homeostatic plasticity. <i>ELife</i> , 2017, 6, .	6.0	42
23	Cul3 and insomniac are required for rapid ubiquitination of postsynaptic targets and retrograde homeostatic signaling. <i>Nature Communications</i> , 2019, 10, 2998.	12.8	40
24	A Glutamate Homeostat Controls the Presynaptic Inhibition of Neurotransmitter Release. <i>Cell Reports</i> , 2018, 23, 1716-1727.	6.4	38
25	Importin- β 11 Regulates Synaptic Phosphorylated Mothers Against Decapentaplegic, and Thereby Influences Synaptic Development and Function at the <i>Drosophila</i> Neuromuscular Junction. <i>Journal of Neuroscience</i> , 2010, 30, 5253-5268.	3.6	36
26	The BLOC-1 Subunit Pallidin Facilitates Activity-Dependent Synaptic Vesicle Recycling. <i>ENeuro</i> , 2017, 4, ENEURO.0335-16.2017.	1.9	36
27	Imaging neuropeptide release at synapses with a genetically engineered reporter. <i>ELife</i> , 2019, 8, .	6.0	33
28	Distinct homeostatic modulations stabilize reduced postsynaptic receptivity in response to presynaptic DLK signaling. <i>Nature Communications</i> , 2018, 9, 1856.	12.8	30
29	New Approaches for Studying Synaptic Development, Function, and Plasticity Using <i>Drosophila</i> as a Model System. <i>Journal of Neuroscience</i> , 2013, 33, 17560-17568.	3.6	28
30	The Role of Histone Deacetylase 6 in Synaptic Plasticity and Memory. <i>Cell Reports</i> , 2017, 18, 1337-1345.	6.4	28
31	The Proteome of BLOC-1 Genetic Defects Identifies the Arp2/3 Actin Polymerization Complex to Function Downstream of the Schizophrenia Susceptibility Factor Dysbindin at the Synapse. <i>Journal of Neuroscience</i> , 2016, 36, 12393-12411.	3.6	26
32	A Screen for Synaptic Growth Mutants Reveals Mechanisms That Stabilize Synaptic Strength. <i>Journal of Neuroscience</i> , 2019, 39, 4051-4065.	3.6	24
33	Synaptic homeostats: latent plasticity revealed at the <i>Drosophila</i> neuromuscular junction. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3159-3179.	5.4	22
34	Neurodevelopmental disease mechanisms, primary cilia, and endosomes converge on the BLOC-1 and BORC complexes. <i>Developmental Neurobiology</i> , 2018, 78, 311-330.	3.0	21
35	The <i>Drosophila</i> Postsynaptic DEG/ENaC Channel <i>ppk29</i> Contributes to Excitatory Neurotransmission. <i>Journal of Neuroscience</i> , 2017, 37, 3171-3180.	3.6	19
36	Estimation of the Readily Releasable Synaptic Vesicle Pool at the <i>Drosophila</i> Larval Neuromuscular Junction. <i>Bio-protocol</i> , 2019, 9, .	0.4	16

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37	The E3 ligase Highwire promotes synaptic transmission by targeting the NAD ⁺ -synthesizing enzyme dNmnat. <i>EMBO Reports</i> , 2019, 20, .	4.5	13
38	Engineering skeletal muscle tissues with advanced maturity improves synapse formation with human induced pluripotent stem cell-derived motor neurons. <i>APL Bioengineering</i> , 2021, 5, 036101.	6.2	13
39	The auxiliary glutamate receptor subunit dSol-1 promotes presynaptic neurotransmitter release and homeostatic potentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25830-25839.	7.1	10
40	Developmental arrest of <i>Drosophila</i> larvae elicits presynaptic depression and enables prolonged studies of neurodegeneration. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	10
41	Antagonistic interactions between two Neuroligins coordinate pre- and postsynaptic assembly. <i>Current Biology</i> , 2021, 31, 1711-1725.e5.	3.9	10
42	Distinct Target-Specific Mechanisms Homeostatically Stabilize Transmission at Pre- and Post-synaptic Compartments. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 196.	3.7	9
43	Autocrine inhibition by a glutamate-gated chloride channel mediates presynaptic homeostatic depression. <i>Science Advances</i> , 2021, 7, eabj1215.	10.3	9
44	Class II cytoplasmic and transmembrane domains are not required for class II-mediated B cell spreading. <i>Immunology Letters</i> , 1995, 44, 67-74.	2.5	7
45	Tissue-Specific Ribosome Profiling in <i>Drosophila</i> . <i>Methods in Molecular Biology</i> , 2021, 2252, 175-188.	0.9	2
46	Editorial: Homeostatic and retrograde signaling mechanisms modulating presynaptic function and plasticity. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 380.	3.7	1
47	One domain to rule them all: α -In synapse α -reconstitution of core active zone functions. <i>Neuron</i> , 2022, 110, 1435-1438.	8.1	1