Donard S Dwyer

List of Publications by Year
in descending order

65 papers	2,085 citations	346980 22 h-index	286692 43 g-index
67 all docs	67 docs citations	67 times ranked	2836 citing authors

#	Article	IF	Citations
1	How Variation in Risk Allele Output and Gene Interactions Shape the Genetic Architecture of Schizophrenia. Genes, 2022, 13, 1040.	1.0	1
2	Clozapine, nimodipine and endosulfan differentially suppress behavioral defects caused by gain-of-function mutations in a two-pore domain K+ channel (UNC-58). Neuroscience Research, 2021, 170, 41-49.	1.0	5
3	Candidate risk genes for bipolar disorder are highly conserved during evolution and highly interconnected. Bipolar Disorders, 2021, 23, 400-408.	1.1	8
4	Na+ leak-current channel (NALCN) at the junction of motor and neuropsychiatric symptoms in Parkinsonâ€™s disease. Journal of Neural Transmission, 2021, 128, 749-762.	1.4	9
5	Analysis of Major Depression Risk Genes Reveals Evolutionary Conservation, Shared Phenotypes, and Extensive Genetic Interactions. Frontiers in Psychiatry, 2021, 12, 698029.	1.3	11
6	Protein Receptors Evolved from Homologous Cohesion Modules That Self-Associated and Are Encoded by Interactive Networked Genes. Life, 2021, 11, 1335.	1.1	0
7	Novel pharmacological modulation of dystonic phenotypes caused by a gain-of-function mutation in the Na+ leak-current channel. Behavioural Pharmacology, 2020, 31, 465-476.	0.8	8
8	Genomic Chaos Begets Psychiatric Disorder. Complex Psychiatry, 2020, 6, 20-29.	1.3	6
9	Generation of Phenothiazine with Potent Anti-TLK1 Activity for Prostate Cancer Therapy. IScience, 2020, 23, 101474.	1.9	18
10	Dosage sensitivity intolerance of VIPR2 microduplication is disease causative to manifest schizophrenia-like phenotypes in a novel BAC transgenic mouse model. Molecular Psychiatry, 2019, 24, 1884-1901.	4.1	14
11	Coordinating Evolutionarily Conserved Response of Muscle and Brain to Optimize Performance During Starvation. , 2019, , 1297-1314.		0
12	Surprising conservation of schizophrenia risk genes in lower organisms reflects their essential function and the evolution of genetic liability. Schizophrenia Research, 2018, 202, 120-128.	1.1	16
13	Two adjacent phenylalanines in the NMDA receptor GluN2A subunit M3 domain interactively regulate alcohol sensitivity and ion channel gating. Neuropharmacology, 2017, 114, 20-33.	2.0	10
14	Insulin Signaling Deficiency Produces Immobility in Caenorhabditis elegans That Models Diminished Motivation States in Man and Responds to Antidepressants. Molecular Neuropsychiatry, 2017, 3, 97-107.	3.0	12
15	Coordinating Evolutionarily Conserved Response of Muscle and Brain to Optimize Performance during Starvation. , 2017, , 1-18.		0
16	Akinesia and freezing caused by Na⁺ leakâ€current channel (NALCN) deficiency corrected by pharmacological inhibition of K⁺ channels and gap junctions. Journal of Comparative Neurology, 2017, 525, 1109-1121.	0.9	13
17	Crossing the Worm-Brain Barrier by Using <i>Caenorhabditis elegans</i> to Explore Fundamentals of Human Psychiatric Illness. Molecular Neuropsychiatry, 2017, 3, 170-179.	3.0	19
18	Social feeding in Caenorhabditis elegans is modulated by antipsychotic drugs and calmodulin and may serve as a protophenotype for asociality. Neuropharmacology, 2015, 92, 56-62.	2.0	14

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19	Different sites of alcohol action in the NMDA receptor GluN2A and GluN2B subunits. Neuropharmacology, 2015, 97, 240-250.	2.0	23
20	Drug elucidation: invertebrate genetics sheds new light on the molecular targets of CNS drugs. Frontiers in Pharmacology, 2014, 5, 177.	1.6	11
21	Insulin/IGF-1 Signaling, including Class II/III PI3Ks, Î²-Arrestin and SGK-1, Is Required in C. elegans to Maintain Pharyngeal Muscle Performance during Starvation. PLoS ONE, 2013, 8, e63851.	1.1	17
22	Interactions among Positions in the Third and Fourth Membrane-associated Domains at the Intersubunit Interface of the N-Methyl-d-aspartate Receptor Forming Sites of Alcohol Action. Journal of Biological Chemistry, 2012, 287, 27302-27312.	1.6	43
23	Protection Against Neuroinflammation by Promoting Co-activation of G Proteinâ€“ Growth Factor Signaling and Metabolic Flexibility in the Brain. , 2011, , 325-346.		0
24	Clozapine and lithium require <i>Caenorhabditis elegans</i> Î²â€•arrestin and serumâ€•and glucocorticoidâ€•inducible kinase to affect Dafâ€•16 (Foxo) localization. Journal of Neuroscience Research, 2011, 89, 1658-1665.	1.3	21
25	Antipsychotic Drugs Activate the <i>C. elegans</i> Akt Pathway via the DAF-2 Insulin/IGF-1 Receptor. ACS Chemical Neuroscience, 2010, 1, 463-473.	1.7	35
26	Structureâ€•based discovery of low molecular weight compounds that stimulate neurite outgrowth and substitute for nerve growth factor. Journal of Neurochemistry, 2009, 110, 1876-1884.	2.1	16
27	Behavioral adaptation in C. elegans produced by antipsychotic drugs requires serotonin and is associated with calcium signaling and calcineurin inhibition. Neuroscience Research, 2009, 64, 280-289.	1.0	25
28	Antipsychotic drugs upâ€•regulate tryptophan hydroxylase in ADF neurons of <i>Caenorhabditis elegans</i>: Role of calciumâ€•calmodulinâ€•dependent protein kinase II and transient receptor potential vanilloid channel. Journal of Neuroscience Research, 2008, 86, 2553-2563.	1.3	23
29	Antipsychotic drugs alter neuronal development including ALM neuroblast migration and PLM axonal outgrowth in <i>Caenorhabditis elegans</i>. International Journal of Developmental Neuroscience, 2008, 26, 371-380.	0.7	21
30	Antipsychotic Drugs: Comparison in Animal Models of Efficacy, Neurotransmitter Regulation, and Neuroprotection. Pharmacological Reviews, 2008, 60, 358-403.	7.1	213
31	The facilitative glucose transporter GLUT3: 20 years of distinction. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E242-E253.	1.8	367
32	Functional Interactions of Alcohol-sensitive Sites in the N-Methyl-d-aspartate Receptor M3 and M4 Domains. Journal of Biological Chemistry, 2008, 283, 8250-8257.	1.6	25
33	Drug discovery based on genetic and metabolic findings in schizophrenia. Expert Review of Clinical Pharmacology, 2008, 1, 773-789.	1.3	8
34	Facilitating lead optimization with Receptor Image from Fragment Footprinting (RIFF). FASEB Journal, 2008, 22, 654.2.	0.2	0
35	Model of how gating electron delocalization along the main chain impacts the formation of secondary structure in proteins. FASEB Journal, 2008, 22, 1010.2.	0.2	0
36	Neuroprotection and Enhancement of Neurite Outgrowth With Small Molecular Weight Compounds From Screens of Chemical Libraries. International Review of Neurobiology, 2007, 77, 247-289.	0.9	9

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37	Quantum mechanics analysis of field effects on the main chain atoms of amino acids. FASEB Journal, 2007, 21, A1012.	0.2	1
38	Antipsychotic drugs disrupt normal development in Caenorhabditis elegans via additional mechanisms besides dopamine and serotonin receptors. Pharmacological Research, 2006, 54, 361-372.	3.1	39
39	Nearest-neighbor effects and structural preferences in dipeptides are a function of the electronic properties of amino acid side-chains. Proteins: Structure, Function and Bioinformatics, 2006, 63, 939-948.	1.5	13
40	Second-Generation Antipsychotic Drugs, Olanzapine, Quetiapine, and Clozapine Enhance Neurite Outgrowth in PC12 Cells Via PI3K/AKT, ERK, and Pertussis Toxin-Sensitive Pathways. Journal of Molecular Neuroscience, 2005, 27, 043-064.	1.1	103
41	Electronic properties of amino acid side chains: quantum mechanics calculation of substituent effects. , 2005, 5, 2.		45
42	Mechanistic Connections between Glucose/Lipid Disturbances and Weight Gain induced by Antipsychotic Drugs. International Review of Neurobiology, 2005, 65, 211-247.	0.9	21
43	Olanzapine produces trophic effects in vitro and stimulates phosphorylation of Akt/PKB, ERK1/2, and the mitogen-activated protein kinase p38. Brain Research, 2004, 1011, 58-68.	1.1	84
44	Cytotoxicity of conventional and atypical antipsychotic drugs in relation to glucose metabolism. Brain Research, 2003, 971, 31-39.	1.1	54
45	Induction of hyperglycemia in mice with atypical antipsychotic drugs that inhibit glucose uptake. Pharmacology Biochemistry and Behavior, 2003, 75, 255-260.	1.3	85
46	Mimicry of dimerization by synthetic peptides designed to target homologous regions of proteins. Proteomics, 2003, 3, 317-324.	1.3	4
47	Molecular Modeling and Molecular Dynamics Simulations of Membrane Transporter Proteins. , 2003, 227, 335-350.		2
48	Neuronal glucose metabolism and schizophrenia: therapeutic prospects?. Expert Review of Neurotherapeutics, 2003, 3, 29-40.	1.4	15
49	Psychoactive drugs affect glucose transport and the regulation of glucose metabolism. International Review of Neurobiology, 2002, 51, 503-530.	0.9	12
50	Expression, regulation, and functional role of glucose transporters (GLUTs) in brain. International Review of Neurobiology, 2002, 51, 159-188.	0.9	61
51	Calcium-independent inhibition of glucose transport in PC-12 and L6 cells by calcium channel antagonists. American Journal of Physiology - Cell Physiology, 2002, 283, C579-C586.	2.1	23
52	Model of the 3-D structure of the GLUT3 glucose transporter and molecular dynamics simulation of glucose transport. Proteins: Structure, Function and Bioinformatics, 2001, 42, 531-541.	1.5	44
53	Inhibition of glucose transport in PC12 cells by the atypical antipsychotic drugs risperidone and clozapine, and structural analogs of clozapine. Brain Research, 2001, 923, 82-90.	1.1	102
54	Electronic Properties of the Amino Acid Side Chains Contribute to the Structural Preferences in Protein Folding. Journal of Biomolecular Structure and Dynamics, 2001, 18, 881-892.	2.0	24

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55	Model of the 3-D structure of the GLUT3 glucose transporter and molecular dynamics simulation of glucose transport. Proteins: Structure, Function and Bioinformatics, 2001, 42, 531.	1.5	1
56	Glucose Metabolism in Relation to Schizophrenia and Antipsychotic Drug Treatment. Annals of Clinical Psychiatry, 2001, 13, 103-113.	0.6	54
57	An ethanol-sensitive variant of the PC12 neuronal cell line: Sensitivity to alcohol is associated with increased cell adhesion and decreased glucose accumulation. , 1999, 178, 93-101.		19
58	Molecular simulation of the effects of alcohols on peptide structure. , 1999, 49, 635-645.		34
59	Dopamine receptor antagonists modulate glucose uptake in rat pheochromocytoma (PC12) cells. Neuroscience Letters, 1999, 274, 151-154.	1.0	49
60	Antipsychotic drugs affect glucose uptake and the expression of glucose transporters in PC12 cells. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 1999, 23, 69-80.	2.5	76
61	Assembly of Exons from Unitary Transposable Genetic Elements: Implications for the Evolution of Protein-Protein Interactions. Journal of Theoretical Biology, 1998, 194, 11-27.	0.8	24
62	Neuronal differentiation in PC12 cells is accompanied by diminished inducibility of Hsp 70 and Hsp60 in response to heat and ethanol. Neurochemical Research, 1996, 21, 659-666.	1.6	31
63	Molecular model of interleukin 12 that highlights amino acid sequence homologies with adhesion domains and gastrointestinal peptides. Journal of Molecular Graphics, 1996, 14, 148-157.	1.7	12
64	Detection of Low Affinity Interactions Between Peptides and Heat Shock Proteins by Chemiluminescence of Enhanced Avidity Reactions (CLEAR). Nature Biotechnology, 1996, 14, 348-351.	9.4	15
65	Amino acid sequence homology between ligands and their receptors: potential identification of binding sites. Life Sciences, 1989, 45, 421-429.	2.0	16