

Vincent O'Connor

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,190
citations

201674

27
h-index

243625

44
g-index

65
all docs

65
docs citations

65
times ranked

2611
citing authors

#	ARTICLE	IF	CITATIONS
1	Ca ²⁺ or Sr ²⁺ Partially Rescues Synaptic Transmission in Hippocampal Cultures Treated with Botulinum Toxin A and C, But Not Tetanus Toxin. <i>Journal of Neuroscience</i> , 1997, 17, 7190-7202.	3.6	146
2	Synaptic vesicle exocytosis: Molecules and models. <i>Cell</i> , 1994, 76, 785-787.	28.9	118
3	The calcium-activated potassium channel, SLO-1, is required for the action of the novel cyclo-octadepsipeptide anthelmintic, emodepside, in <i>Caenorhabditis elegans</i> . <i>International Journal for Parasitology</i> , 2007, 37, 1577-1588.	3.1	101
4	Regulation of Neurotransmitter Release Kinetics by NSF. <i>Science</i> , 1998, 279, 1203-1206.	12.6	98
5	Fluensulfone is a nematicide with a mode of action distinct from anticholinesterases and macrocyclic lactones. <i>Pesticide Biochemistry and Physiology</i> , 2014, 109, 44-57.	3.6	97
6	Degenerating Synaptic Boutons in Prion Disease. <i>American Journal of Pathology</i> , 2009, 175, 1610-1621.	3.8	90
7	C1q: the perfect complement for a synaptic feast?. <i>Nature Reviews Neuroscience</i> , 2008, 9, 807-811.	10.2	87
8	Latrotoxin Receptor Signaling Engages the UNC-13-Dependent Vesicle-Priming Pathway in <i>C. elegans</i> . <i>Current Biology</i> , 2004, 14, 1374-1379.	3.9	78
9	Selective presynaptic degeneration in the synaptopathy associated with ME7-induced hippocampal pathology. <i>Neurobiology of Disease</i> , 2009, 35, 63-74.	4.4	72
10	Morphological and Functional Abnormalities in Mitochondria Associated with Synaptic Degeneration in Prion Disease. <i>American Journal of Pathology</i> , 2010, 177, 1411-1421.	3.8	72
11	Synaptopathy: dysfunction of synaptic function?. <i>Biochemical Society Transactions</i> , 2010, 38, 443-444.	3.4	69
12	Mapping of Calmodulin and G β Binding Domains within the C-terminal Region of the Metabotropic Glutamate Receptor 7A. <i>Journal of Biological Chemistry</i> , 2001, 276, 30662-30669.	3.4	60
13	Deciphering the molecular determinants of cholinergic anthelmintic sensitivity in nematodes: When novel functional validation approaches highlight major differences between the model <i>Caenorhabditis elegans</i> and parasitic species. <i>PLoS Pathogens</i> , 2018, 14, e1006996.	4.7	55
14	Anthelmintic cyclooctadepsipeptides: complex in structure and mode of action. <i>Trends in Parasitology</i> , 2012, 28, 385-394.	3.3	54
15	A Differential Role for Neuropeptides in Acute and Chronic Adaptive Responses to Alcohol: Behavioural and Genetic Analysis in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2010, 5, e10422.	2.5	51
16	Fusion complex formation protects synaptobrevin against proteolysis by tetanus toxin light chain. <i>FEBS Letters</i> , 1994, 353, 319-323.	2.8	50
17	Expression of the MAST family of serine/threonine kinases. <i>Brain Research</i> , 2008, 1195, 12-19.	2.2	49
18	The N-ethylmaleimide-sensitive fusion protein (NSF) is preferentially expressed in the nervous system. <i>FEBS Letters</i> , 1994, 347, 55-58.	2.8	45

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19	Differential Amplification of Intron-containing Transcripts Reveals Long Term Potentiation-associated Up-regulation of Specific Pde10A Phosphodiesterase Splice Variants. <i>Journal of Biological Chemistry</i> , 2004, 279, 15841-15849.	3.4	43
20	Pharmacological assays reveal age-related changes in synaptic transmission at the <i>Caenorhabditis elegans</i> neuromuscular junction that are modified by reduced insulin signalling. <i>Journal of Experimental Biology</i> , 2013, 216, 492-501.	1.7	43
21	Nicotinic acetylcholine receptors: A comparison of the nAChRs of <i>Caenorhabditis elegans</i> and parasitic nematodes. <i>Parasitology International</i> , 2013, 62, 606-615.	1.3	43
22	Selective Toxicity of the Anthelmintic Emodepside Revealed by Heterologous Expression of Human KCNMA1 in <i>Caenorhabditis elegans</i> . <i>Molecular Pharmacology</i> , 2011, 79, 1031-1043.	2.3	39
23	An oxytocin-dependent social interaction between larvae and adult <i>C. elegans</i> . <i>Scientific Reports</i> , 2017, 7, 10122.	3.3	36
24	NeuroChip: A Microfluidic Electrophysiological Device for Genetic and Chemical Biology Screening of <i>Caenorhabditis elegans</i> Adult and Larvae. <i>PLoS ONE</i> , 2013, 8, e64297.	2.5	36
25	Functional Characterization of a Novel Class of Morantel-Sensitive Acetylcholine Receptors in Nematodes. <i>PLoS Pathogens</i> , 2015, 11, e1005267.	4.7	31
26	The regulation of feeding and metabolism in response to food deprivation in <i>Caenorhabditis elegans</i> . <i>Invertebrate Neuroscience</i> , 2010, 10, 63-76.	1.8	30
27	Protein kinase signalling requirements for metabotropic action of kainate receptors in rat CA1 pyramidal neurones. <i>Journal of Physiology</i> , 2007, 579, 363-373.	2.9	29
28	Worms take to the slo lane: a perspective on the mode of action of emodepside. <i>Invertebrate Neuroscience</i> , 2012, 12, 29-36.	1.8	28
29	Progressive metabolic impairment underlies the novel nematicidal action of fluensulfone on the potato cyst nematode <i>Globodera pallida</i> . <i>Pesticide Biochemistry and Physiology</i> , 2017, 142, 83-90.	3.6	28
30	SLO, SLO, quick, quick, slow: calcium-activated potassium channels as regulators of <i>Caenorhabditis elegans</i> behaviour and targets for anthelmintics. <i>Invertebrate Neuroscience</i> , 2007, 7, 199-208.	1.8	27
31	Analysis of the Hippocampal Proteome in ME7 Prion Disease Reveals a Predominant Astrocytic Signature and Highlights the Brain-restricted Production of Clusterin in Chronic Neurodegeneration. <i>Journal of Biological Chemistry</i> , 2014, 289, 4532-4545.	3.4	27
32	Metabotropic Glutamate Receptors. <i>Journal of Biological Chemistry</i> , 2015, 290, 15052-15065.	3.4	27
33	Multiple excitatory and inhibitory neural signals converge to fine-tune <i>Caenorhabditis elegans</i> feeding to food availability. <i>FASEB Journal</i> , 2016, 30, 836-848.	0.5	26
34	Brain Region Specific Pre-Synaptic and Post-Synaptic Degeneration Are Early Components of Neuropathology in Prion Disease. <i>PLoS ONE</i> , 2013, 8, e55004.	2.5	24
35	The Cyclooctadepsipeptide Anthelmintic Emodepside Differentially Modulates Nematode, Insect and Human Calcium-Activated Potassium (SLO) Channel Alpha Subunits. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004062.	3.0	24
36	Change in tau phosphorylation associated with neurodegeneration in the ME7 model of prion disease. <i>Biochemical Society Transactions</i> , 2010, 38, 545-551.	3.4	22

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37	The Role of Activity in Synaptic Degeneration in a Protein Misfolding Disease, Prion Disease. PLoS ONE, 2012, 7, e41182.	2.5	21
38	AutoEPG: Software for the Analysis of Electrical Activity in the Microcircuit Underpinning Feeding Behaviour of <i>Caenorhabditis elegans</i> . PLoS ONE, 2009, 4, e8482.	2.5	18
39	A comparison of electrically evoked and channel rhodopsin-evoked postsynaptic potentials in the pharyngeal system of <i>Caenorhabditis elegans</i> . Invertebrate Neuroscience, 2009, 9, 43-56.	1.8	17
40	Dopaminergic modulation of phase reversal in desert locusts. Frontiers in Behavioral Neuroscience, 2014, 8, 371.	2.0	15
41	Unaltered SNARE complex formation in an in vivo model of prion disease. Brain Research, 2008, 1233, 1-7.	2.2	14
42	Distinct molecular targets including SLO-1 and gap junctions are engaged across a continuum of ethanol concentrations in <i>Caenorhabditis elegans</i> . FASEB Journal, 2013, 27, 4266-4278.	0.5	14
43	Pathogenic tau does not drive activation of the unfolded protein response. Journal of Biological Chemistry, 2019, 294, 9679-9688.	3.4	14
44	The distinct profiles of the inhibitory effects of fluensulfone, abamectin, aldicarb and fluopyram on <i>Globodera pallida</i> hatching. Pesticide Biochemistry and Physiology, 2020, 165, 104541.	3.6	14
45	HSP-4 endoplasmic reticulum (ER) stress pathway is not activated in a <i>C. elegans</i> model of ethanol intoxication and withdrawal. Invertebrate Neuroscience, 2012, 12, 93-102.	1.8	11
46	Structural Determinants of Calmodulin Binding to the Intracellular C-terminal Domain of the Metabotropic Glutamate Receptor 7A. Journal of Biological Chemistry, 2008, 283, 5577-5588.	3.4	10
47	Reactive hypertrophy of synaptic varicosities within the hippocampus of prion-infected mice. Biochemical Society Transactions, 2010, 38, 471-475.	3.4	10
48	Analysis of splice variants for the <i>C. elegans</i> orthologue of human neuroligin reveals a developmentally regulated transcript. Gene Expression Patterns, 2015, 17, 69-78.	0.8	10
49	Identification and characterisation of serotonin signalling in the potato cyst nematode <i>Globodera pallida</i> reveals new targets for crop protection. PLoS Pathogens, 2020, 16, e1008884.	4.7	9
50	Synaptic vesicle fusion and synaptotagmin: 2B or not 2B?. Nature Neuroscience, 2002, 5, 823-824.	14.8	8
51	Impact of drug solvents on <i>C. elegans</i> pharyngeal pumping. Toxicology Reports, 2021, 8, 1240-1247.	3.3	8
52	<i>C. elegans</i> pharyngeal pumping provides a whole organism bio-assay to investigate anti-cholinesterase intoxication and antidotes. NeuroToxicology, 2021, 82, 50-62.	3.0	7
53	<i>In vitro</i> CNS tissue analogues formed by self-organisation of reaggregated postnatal brain tissue. Journal of Neurochemistry, 2011, 117, 1020-1032.	3.9	6
54	Neuroligin dependence of social behaviour in <i>Caenorhabditis elegans</i> provides a model to investigate an autism-associated gene. Human Molecular Genetics, 2021, 29, 3546-3553.	2.9	6

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55	Ephrin tempers two-faced synaptojanin 1. <i>Nature Cell Biology</i> , 2005, 7, 454-456.	10.3	4
56	Molecular Approaches to Neurotransmitter Release. <i>Annals of the New York Academy of Sciences</i> , 2006, 733, 290-297.	3.8	4
57	Reduced expression of the presynaptic co-chaperone cysteine string protein alpha (CSP α) does not exacerbate experimentally-induced ME7 prion disease. <i>Neuroscience Letters</i> , 2015, 589, 138-143.	2.1	3
58	Confounds of using the unc-58 selection marker highlights the importance of genotyping co-CRISPR genes. <i>PLoS ONE</i> , 2022, 17, e0253351.	2.5	3
59	Molecular Investigation of the Unfolded Protein Response in Select Human Tauopathies. <i>Journal of Alzheimer's Disease Reports</i> , 2021, 5, 1-15.	2.2	2
60	Biochemical evidence for the differential association of metabotropic glutamate receptors within synaptic complexes. <i>Neuroscience Letters</i> , 2008, 444, 27-30.	2.1	1