Vincent O'Connor

List of Publications by Year
in descending order

60	2,190	201674	243625
papers	citations	27 h-index	44 g-index

65	65	65	2611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Confounds of using the unc-58 selection marker highlights the importance of genotyping co-CRISPR genes. PLoS ONE, 2022, 17, e0253351.	2.5	3
2	Neuroligin dependence of social behaviour inCaenorhabditis elegansprovides a model to investigate an autism-associated gene. Human Molecular Genetics, 2021, 29, 3546-3553.	2.9	6
3	C. elegans pharyngeal pumping provides a whole organism bio-assay to investigate anti-cholinesterase intoxication and antidotes. NeuroToxicology, 2021, 82, 50-62.	3.0	7
4	Impact of drug solvents on C. elegans pharyngeal pumping. Toxicology Reports, 2021, 8, 1240-1247.	3.3	8
5	Molecular Investigation of the Unfolded Protein Response in Select Human Tauopathies. Journal of Alzheimer's Disease Reports, 2021, 5, 1-15.	2.2	2
6	The distinct profiles of the inhibitory effects of fluensulfone, abamectin, aldicarb and fluopyram on Globodera pallida hatching. Pesticide Biochemistry and Physiology, 2020, 165, 104541.	3.6	14
7	Identification and characterisation of serotonin signalling in the potato cyst nematode Globodera pallida reveals new targets for crop protection. PLoS Pathogens, 2020, 16, e1008884.	4.7	9
8	Pathogenic tau does not drive activation of the unfolded protein response. Journal of Biological Chemistry, 2019, 294, 9679-9688.	3.4	14
9	Deciphering the molecular determinants of cholinergic anthelmintic sensitivity in nematodes: When novel functional validation approaches highlight major differences between the model Caenorhabditis elegans and parasitic species. PLoS Pathogens, 2018, 14, e1006996.	4.7	55
10	Progressive metabolic impairment underlies the novel nematicidal action of fluensulfone on the potato cyst nematode Globodera pallida. Pesticide Biochemistry and Physiology, 2017, 142, 83-90.	3.6	28
11	An oxytocin-dependent social interaction between larvae and adult C. elegans. Scientific Reports, 2017, 7, 10122.	3.3	36
12	Multiple excitatory and inhibitory neural signals converge to fineâ€tuneCaenorhabditis elegansfeeding to food availability. FASEB Journal, 2016, 30, 836-848.	0.5	26
13	The Cyclooctadepsipeptide Anthelmintic Emodepside Differentially Modulates Nematode, Insect and Human Calcium-Activated Potassium (SLO) Channel Alpha Subunits. PLoS Neglected Tropical Diseases, 2015, 9, e0004062.	3.0	24
14	Functional Characterization of a Novel Class of Morantel-Sensitive Acetylcholine Receptors in Nematodes. PLoS Pathogens, 2015, 11, e1005267.	4.7	31
15	Reduced expression of the presynaptic co-chaperone cysteine string protein alpha (CSPÎ±) does not exacerbate experimentally-induced ME7 prion disease. Neuroscience Letters, 2015, 589, 138-143.	2.1	3
16	Analysis of splice variants for the C.â€‰elegans orthologue of human neuroligin reveals a developmentally regulated transcript. Gene Expression Patterns, 2015, 17, 69-78.	0.8	10
17	Metabotropic Glutamate Receptors. Journal of Biological Chemistry, 2015, 290, 15052-15065.	3.4	27
18	Dopaminergic modulation of phase reversal in desert locusts. Frontiers in Behavioral Neuroscience, 2014, 8, 371.	2.0	15

#	Article	IF	Citations
19	Fluensulfone is a nematicide with a mode of action distinct from anticholinesterases and macrocyclic lactones. Pesticide Biochemistry and Physiology, 2014, 109, 44-57.	3.6	97
20	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. Journal of Biological Chemistry, 2014, 289, 4532-4545.	3.4	27
21	Pharmacological assays reveal age-related changes in synaptic transmission at the Caenorhabditis elegans neuromuscular junction that are modified by reduced insulin signalling. Journal of Experimental Biology, 2013, 216, 492-501.	1.7	43
22	Distinct molecular targets including SLOâ€1 and gap junctions are engaged across a continuum of ethanol concentrations inCaenorhabditis elegans. FASEB Journal, 2013, 27, 4266-4278.	0.5	14
23	Nicotinic acetylcholine receptors: A comparison of the nAChRs of Caenorhabditis elegans and parasitic nematodes. Parasitology International, 2013, 62, 606-615.	1.3	43
24	Brain Region Specific Pre-Synaptic and Post-Synaptic Degeneration Are Early Components of Neuropathology in Prion Disease. PLoS ONE, 2013, 8, e55004.	2.5	24
25	NeuroChip: A Microfluidic Electrophysiological Device for Genetic and Chemical Biology Screening of Caenorhabditis elegans Adult and Larvae. PLoS ONE, 2013, 8, e64297.	2.5	36
26	HSP-4 endoplasmic reticulum (ER) stress pathway is not activated in a C. elegans model of ethanol intoxication and withdrawal. Invertebrate Neuroscience, 2012, 12, 93-102.	1.8	11
27	Anthelmintic cyclooctadepsipeptides: complex in structure and mode of action. Trends in Parasitology, 2012, 28, 385-394.	3.3	54
28	Worms take to the slo lane: a perspective on the mode of action of emodepside. Invertebrate Neuroscience, 2012, 12, 29-36.	1.8	28
29	The Role of Activity in Synaptic Degeneration in a Protein Misfolding Disease, Prion Disease. PLoS ONE, 2012, 7, e41182.	2.5	21
30	In vitro CNS tissue analogues formed by selfâ€organisation of reaggregated postâ€natal brain tissue. Journal of Neurochemistry, 2011, 117, 1020-1032.	3.9	6
31	Selective Toxicity of the Anthelmintic Emodepside Revealed by Heterologous Expression of Human KCNMA1 inCaenorhabditis elegans. Molecular Pharmacology, 2011, 79, 1031-1043.	2.3	39
32	Change in tau phosphorylation associated with neurodegeneration in the ME7 model of prion disease. Biochemical Society Transactions, 2010, 38, 545-551.	3.4	22
33	Reactive hypertrophy of synaptic varicosities within the hippocampus of prion-infected mice. Biochemical Society Transactions, 2010, 38, 471-475.	3.4	10
34	The regulation of feeding and metabolism in response to food deprivation in Caenorhabditis elegans. Invertebrate Neuroscience, 2010, 10, 63-76.	1.8	30
35	A Differential Role for Neuropeptides in Acute and Chronic Adaptive Responses to Alcohol: Behavioural and Genetic Analysis in Caenorhabditis elegans. PLoS ONE, 2010, 5, e10422.	2.5	51
36	Synaptopathy: dysfunction of synaptic function?. Biochemical Society Transactions, 2010, 38, 443-444.	3.4	69

#	Article	IF	Citations
37	Morphological and Functional Abnormalities in Mitochondria Associated with Synaptic Degeneration in Prion Disease. American Journal of Pathology, 2010, 177, 1411-1421.	3.8	72
38	AutoEPG: Software for the Analysis of Electrical Activity in the Microcircuit Underpinning Feeding Behaviour of Caenorhabditis elegans. PLoS ONE, 2009, 4, e8482.	2.5	18
39	Selective presynaptic degeneration in the synaptopathy associated with ME7-induced hippocampal pathology. Neurobiology of Disease, 2009, 35, 63-74.	4.4	72
40	A comparison of electrically evoked and channel rhodopsin-evoked postsynaptic potentials in the pharyngeal system of Caenorhabditis elegans. Invertebrate Neuroscience, 2009, 9, 43-56.	1.8	17
41	Degenerating Synaptic Boutons in Prion Disease. American Journal of Pathology, 2009, 175, 1610-1621.	3.8	90
42	Expression of the MAST family of serine/threonine kinases. Brain Research, 2008, 1195, 12-19.	2.2	49
43	Unaltered SNARE complex formation in an in vivo model of prion disease. Brain Research, 2008, 1233, 1-7.	2.2	14
44	Biochemical evidence for the differential association of metabotropic glutamate receptors within synaptic complexes. Neuroscience Letters, 2008, 444, 27-30.	2.1	1
45	C1q: the perfect complement for a synaptic feast?. Nature Reviews Neuroscience, 2008, 9, 807-811.	10.2	87
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	Protein kinase signalling requirements for metabotropic action of kainate receptors in rat CA1 pyramidal neurones. Journal of Physiology, 2007, 579, 363-373.	2.9	29
48	The calcium-activated potassium channel, SLO-1, is required for the action of the novel cyclo-octadepsipeptide anthelmintic, emodepside, in Caenorhabditis elegans. International Journal for Parasitology, 2007, 37, 1577-1588.	3.1	101
49	SLO, SLO, quick, quick, slow: calcium-activated potassium channels as regulators of Caenorhabditis elegans behaviour and targets for anthelmintics. Invertebrate Neuroscience, 2007, 7, 199-208.	1.8	27
50	Molecular Approaches to Neurotransmitter Release. Annals of the New York Academy of Sciences, 2006, 733, 290-297.	3.8	4
51	Ephrin tempers two-faced synaptojanin 1. Nature Cell Biology, 2005, 7, 454-456.	10.3	4
52	Differential Amplification of Intron-containing Transcripts Reveals Long Term Potentiation-associated Up-regulation of Specific Pde10A Phosphodiesterase Splice Variants. Journal of Biological Chemistry, 2004, 279, 15841-15849.	3.4	43
53	Latrotoxin Receptor Signaling Engages the UNC-13-Dependent Vesicle-Priming Pathway in C. elegans. Current Biology, 2004, 14, 1374-1379.	3.9	78
54	Synaptic vesicle fusion and synaptotagmin: 2B or not 2B?. Nature Neuroscience, 2002, 5, 823-824.	14.8	8

#	Article	IF	Citations
55	Mapping of Calmodulin and CÎ²Î³ Binding Domains within the C-terminal Region of the Metabotropic Glutamate Receptor 7A. Journal of Biological Chemistry, 2001, 276, 30662-30669.	3.4	60
56	Regulation of Neurotransmitter Release Kinetics by NSF. Science, 1998, 279, 1203-1206.	12.6	98
57	Ca²⁺or Sr²⁺Partially Rescues Synaptic Transmission in Hippocampal Cultures Treated with Botulinum Toxin A and C, But Not Tetanus Toxin. Journal of Neuroscience, 1997, 17, 7190-7202.	3.6	146
58	Synaptic vesicle exocytosis: Molecules and models. Cell, 1994, 76, 785-787.	28.9	118
59	TheN-ethylmaleimide-sensitive fusion protein (NSF) is preferentially expressed in the nervous system. FEBS Letters, 1994, 347, 55-58.	2.8	45
60	Fusion complex formation protects synaptobrevin against proteolysis by tetanus toxin light chain. FEBS Letters, 1994, 353, 319-323.	2.8	50