Gregory T Macleod

List of Publications by Year
in descending order

28	995	471061 17	500791 28
papers	citations	h-index	g-index

32	32	32	1515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Presynaptic Mitochondrial Volume and Packing Density Scale with Presynaptic Power Demand. Journal of Neuroscience, 2022, 42, 954-967.	1.7	18
2	Computational modeling predicts ephemeral acidic microdomains in the glutamatergic synaptic cleft. Biophysical Journal, 2021, 120, 5575-5591.	0.2	5
3	Neto-Î± Controls Synapse Organization and Homeostasis at the Drosophila Neuromuscular Junction. Cell Reports, 2020, 32, 107866.	2.9	8
4	Neuronal Glutamatergic Synaptic Clefts Alkalinize Rather Than Acidify during Neurotransmission. Journal of Neuroscience, 2020, 40, 1611-1624.	1.7	21
5	Endogenous tagging reveals differential regulation of Ca²⁺ channels at single AZs during presynaptic homeostatic potentiation and depression. Journal of Neuroscience, 2019, 39, 3068-18.	1.7	81
6	The application of â€˜kisserâ€™ probes for resolving the distribution and microenvironment of membrane proteins in situ. Journal of Neurogenetics, 2018, 32, 236-245.	0.6	4
7	Na⁺/H⁺ exchange via the Drosophila vesicular glutamate transporter mediates activityâ€induced acid efflux from presynaptic terminals. Journal of Physiology, 2017, 595, 805-824.	1.3	19
8	The Krebs Cycle Enzyme Isocitrate Dehydrogenase 3A Couples Mitochondrial Metabolism to Synaptic Transmission. Cell Reports, 2017, 21, 3794-3806.	2.9	31
9	Examining Mitochondrial Function at Synapses In Situ. Neuromethods, 2017, , 279-297.	0.2	2
10	High-Probability Neurotransmitter Release Sites Represent an Energy-Efficient Design. Current Biology, 2016, 26, 2562-2571.	1.8	40
11	Expression of Multiple Transgenes from a Single Construct Using Viral 2A Peptides in Drosophila. PLoS ONE, 2014, 9, e100637.	1.1	126
12	The Redistribution ofDrosophilaVesicular Monoamine Transporter Mutants from Synaptic Vesicles to Large Dense-Core Vesicles Impairs Amine-Dependent Behaviors. Journal of Neuroscience, 2014, 34, 6924-6937.	1.7	24
13	A TRPV Channel in Drosophila Motor Neurons Regulates Presynaptic Resting Ca2+ Levels, Synapse Growth, and Synaptic Transmission. Neuron, 2014, 84, 764-777.	3.8	68
14	Neuronâ€specific expression of CuZnSOD prevents the loss of muscle mass and function that occurs in homozygous CuZnSODâ€knockout mice. FASEB Journal, 2014, 28, 1666-1681.	0.2	75
15	The Lack of CuZnSOD Leads to Impaired Neurotransmitter Release, Neuromuscular Junction Destabilization and Reduced Muscle Strength in Mice. PLoS ONE, 2014, 9, e100834.	1.1	43
16	Mitochondrial Free Ca2+ Levels and Their Effects on Energy Metabolism in Drosophila Motor Nerve Terminals. Biophysical Journal, 2013, 104, 2353-2361.	0.2	60
17	Genetically encoded pHâ€indicators reveal activityâ€dependent cytosolic acidification of Drosophila motor nerve termini in vivo. Journal of Physiology, 2013, 591, 1691-1706.	1.3	36
18	Forward-Filling of Dextran-Conjugated Indicators for Calcium Imaging at the Drosophila Larval Neuromuscular Junction. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot070094.	0.2	15

#	Article	IF	Citations
19	Cytosolic Calcium Coordinates Mitochondrial Energy Metabolism with Presynaptic Activity. Journal of Neuroscience, 2012, 32, 1233-1243.	1.7	63
20	Calcium Imaging at the Drosophila Larval Neuromuscular Junction. Cold Spring Harbor Protocols, 2012, 2012, pdb.top070078-pdb.top070078.	0.2	7
21	Calcium-dependent phosphorylation regulates neuronal stability and plasticity in a highly precise pacemaker nucleus. Journal of Neurophysiology, 2011, 106, 319-331.	0.9	4
22	Differential Control of Presynaptic CaMKII Activation and Translocation to Active Zones. Journal of Neuroscience, 2011, 31, 9093-9100.	1.7	32
23	Mitochondria: enigmatic stewards of the synaptic vesicle reserve pool. Frontiers in Synaptic Neuroscience, 2010, 2, 145.	1.3	2
24	Presynaptic Mitochondria in Functionally Different Motor Neurons Exhibit Similar Affinities for Ca²⁺But Exert Little Influence as Ca²⁺Buffers at Nerve Firing RatesIn Situ. Journal of Neuroscience, 2010, 30, 1869-1881.	1.7	71
25	Modification of a Hydrophobic Layer by a Point Mutation in Syntaxin 1A Regulates the Rate of Synaptic Vesicle Fusion. PLoS Biology, 2007, 5, e72.	2.6	42
26	Loading Drosophila Nerve Terminals with Calcium Indicators. Journal of Visualized Experiments, 2007, , 250.	0.2	10
27	Synaptic Homeostasis on the Fast Track. Neuron, 2006, 52, 569-571.	3.8	11
28	AP180 Maintains the Distribution of Synaptic and Vesicle Proteins in the Nerve Terminal and Indirectly Regulates the Efficacy of Ca2+-Triggered Exocytosis. Journal of Neurophysiology, 2005, 94, 1888-1903.	0.9	72