

# Trevor M Lewis

## List of Publications by Year in descending order

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31  
papers

913  
citations

567144

15  
h-index

501076

28  
g-index

32  
all docs

32  
docs citations

32  
times ranked

787  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyperekplexia associated with compound heterozygote mutations in the beta-subunit of the human inhibitory glycine receptor (GLRB). <i>Human Molecular Genetics</i> , 2002, 11, 853-860.	1.4	151
2	The ion channel properties of a rat recombinant neuronal nicotinic receptor are dependent on the host cell type. <i>Journal of Physiology</i> , 1997, 505, 299-306.	1.3	101
3	Properties of human glycine receptors containing the hyperekplexia mutation $\hat{1}$ (K276E), expressed in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 1998, 507, 25-40.	1.3	95
4	Compound heterozygosity and nonsense mutations in the $\hat{1}$ -subunit of the inhibitory glycine receptor in hyperekplexia. <i>Human Genetics</i> , 2001, 109, 267-270.	1.8	72
5	Role of Charged Residues in Coupling Ligand Binding and Channel Activation in the Extracellular Domain of the Glycine Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 50151-50157.	1.6	70
6	Characterization of the Effects of Charged Residues in the Intracellular Loop on Ion Permeation in $\hat{1}$ Glycine Receptor Channels. <i>Journal of Biological Chemistry</i> , 2009, 284, 2023-2030.	1.6	56
7	Gating mechanisms in Cys-loop receptors. <i>European Biophysics Journal</i> , 2009, 39, 37-49.	1.2	54
8	Mechanisms of channel gating of the ligand-gated ion channel superfamily inferred from protein structure. <i>Experimental Physiology</i> , 2004, 89, 145-153.	0.9	48
9	Kinetic Determinants of Agonist Action at the Recombinant Human Glycine Receptor. <i>Journal of Physiology</i> , 2003, 549, 361-374.	1.3	41
10	Structure-Function Relationships of the Human Glycine Receptor: Insights from Hyperekplexia Mutations. <i>Annals of the New York Academy of Sciences</i> , 1999, 868, 681-684.	1.8	24
11	Anion-Cation Permeability Correlates with Hydrated Counterion Size in Glycine Receptor Channels. <i>Biophysical Journal</i> , 2008, 95, 4698-4715.	0.2	23
12	Immunolabelling for VDAC, the mitochondrial voltage-dependent anion channel, on sarcoplasmic reticulum from amphibian skeletal muscle. <i>Neuroscience Letters</i> , 1994, 181, 83-86.	1.0	22
13	Pore Structure of the Cys-loop Ligand-gated Ion Channels. <i>Neurochemical Research</i> , 2009, 34, 1805-1815.	1.6	19
14	Ligand Binding at the $\hat{1}$ - $\hat{4}$ Agonist-Binding Site of the $\hat{4}$ <sup>22</sup> nAChR Triggers Receptor Activation through a Pre-Activated Conformational State. <i>PLoS ONE</i> , 2016, 11, e0161154.	1.1	18
15	Covalent Trapping of Methylycaconitine at the $\hat{1}$ - $\hat{4}$ Interface of the $\hat{4}$ <sup>22</sup> Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2013, 288, 26521-26532.	1.6	17
16	An optimised 3Å KCl salt-bridge technique used to measure and validate theoretical liquid junction potential values in patch-clamping and electrophysiology. <i>European Biophysics Journal</i> , 2013, 42, 631-646.	1.2	15
17	A Single P-loop Glutamate Point Mutation to either Lysine or Arginine Switches the Cation $\leftrightarrow$ Anion Selectivity of the CNGA2 Channel. <i>Journal of General Physiology</i> , 2006, 127, 375-389.	0.9	13
18	Mixed antagonistic effects of the ginkgolides at recombinant human $\hat{1}$ GABAC receptors. <i>Neuropharmacology</i> , 2012, 63, 1127-1139.	2.0	12

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19	Ultrastructure of sarcoballs on the surface of skinned amphibian skeletal muscle fibres. <i>Journal of Muscle Research and Cell Motility</i> , 1992, 13, 640-653.	0.9	10
20	Identification of a New Ligand Binding Domain in the $\alpha 1$ Subunit of the Inhibitory Glycine Receptor. <i>Journal of Neurochemistry</i> , 1999, 73, 2158-2166.	2.1	10
21	Revisiting autosomal dominant nocturnal frontal lobe epilepsy (ADNFLE) mutations in the nicotinic acetylcholine receptor reveal an increase in efficacy regardless of stoichiometry. <i>Pharmacological Research</i> , 2019, 139, 215-227.	3.1	10
22	In vivo somatic delivery of plasmid DNA and retrograde transport to obtain cell-specific gene expression in the central nervous system. <i>Journal of Neurochemistry</i> , 2004, 90, 1445-1452.	2.1	6
23	External divalent cations increase anion/cation permeability ratio in glycine receptor channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 460, 131-152.	1.3	6
24	Replicable Expansion and Differentiation of Neural Precursors from Adult Canine Skin. <i>Stem Cell Reports</i> , 2017, 9, 557-570.	2.3	6
25	Further analysis of counterion permeation through anion-selective glycine receptor channels. <i>Channels</i> , 2010, 4, 142-149.	1.5	5
26	Conformational changes in extracellular loop 2 associated with signal transduction in the glycine receptor. <i>Journal of Neurochemistry</i> , 2010, 115, 1245-1255.	2.1	4
27	Mutation of the pore glutamate affects both cytoplasmic and external dequalinium block in the rat olfactory CNGA2 channel. <i>European Biophysics Journal</i> , 2005, 34, 442-453.	1.2	3
28	The pericranial flap for inner lining of full-thickness nasal defects: a retrospective cohort study. <i>Journal of Laryngology and Otology</i> , 2023, 137, 532-536.	0.4	1
29	A Hydrophobic Area of the GABA $\alpha 1$ Receptor Containing Phenylalanine 124 Influences Both Receptor Activation and Deactivation. <i>Journal of Molecular Neuroscience</i> , 2015, 55, 305-313.	1.1	0
30	Channel gating in the LGIC receptor superfamily – insights into the signal. , 2005, , 27-28.		0
31	Anion selectivity and counterion cation permeation in glycine receptor channels. <i>FASEB Journal</i> , 2012, 26, 901.2.	0.2	0