

# Paul A Davies

## List of Publications by Year in descending order

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53  
papers

3,396  
citations

159585

30  
h-index

189892

50  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2942  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preventing Phosphorylation of the GABAAR $\alpha 3$ Subunit Compromises the Behavioral Effects of Neuroactive Steroids. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, 817996.	2.9	4
2	Delineation of the functional properties exhibited by the Zinc-Activated Channel (ZAC) and its high-frequency Thr128Ala variant (rs2257020) in <i>Xenopus</i> oocytes. <i>Pharmacological Research</i> , 2021, 169, 105653.	7.1	3
3	Discovery and functional characterization of N-(thiazol-2-yl)-benzamide analogs as the first class of selective antagonists of the Zinc-Activated Channel (ZAC). <i>Biochemical Pharmacology</i> , 2021, 193, 114782.	4.4	2
4	Probing the molecular basis for signal transduction through the Zinc-Activated Channel (ZAC). <i>Biochemical Pharmacology</i> , 2021, 193, 114781.	4.4	4
5	KCC2 is required for the survival of mature neurons but not for their development. <i>Journal of Biological Chemistry</i> , 2021, 296, 100364.	3.4	15
6	Isolation and Characterization of Multi-Protein Complexes Enriched in the K-Cl Co-transporter 2 From Brain Plasma Membranes. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 563091.	2.9	15
7	Preclinical characterization of zuranolone (SAGE-217), a selective neuroactive steroid GABA <sub>A</sub> receptor positive allosteric modulator. <i>Neuropharmacology</i> , 2020, 181, 108333.	4.1	65
8	Identification of a Core Amino Acid Motif within the $\alpha 2$ Subunit of GABAARs that Promotes Inhibitory Synaptogenesis and Resilience to Seizures. <i>Cell Reports</i> , 2019, 28, 670-681.e8.	6.4	16
9	Metabotropic, but not allosteric, effects of neurosteroids on GABAergic inhibition depend on the phosphorylation of GABA <sub>A</sub> receptors. <i>Journal of Biological Chemistry</i> , 2019, 294, 12220-12230.	3.4	32
10	Neuroactive Steroids Reverse Tonic Inhibitory Deficits in Fragile X Syndrome Mouse Model. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 15.	2.9	16
11	Pharmacological Characterization of the Zinc-Activated Channel: A Cys-Loop Receptor Gated by Zn <sup>2+</sup> , Cu <sup>2+</sup> And Protons. <i>Biophysical Journal</i> , 2019, 116, 396a.	0.5	0
12	Inhibitory Synapse Formation at the Axon Initial Segment. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 266.	2.9	10
13	The small molecule CLP257 does not modify activity of the K <sup>+</sup> “Cl <sup>-</sup> ” co-transporter KCC2 but does potentiate GABA <sub>A</sub> receptor activity. <i>Nature Medicine</i> , 2017, 23, 1394-1396.	30.7	47
14	Endogenous and synthetic neuroactive steroids evoke sustained increases in the efficacy of GABAergic inhibition via a protein kinase $\alpha$ -dependent mechanism. <i>Neuropharmacology</i> , 2017, 113, 314-322.	4.1	56
15	Proteomic Characterization of Inhibitory Synapses Using a Novel pHluorin-tagged $\alpha 3$ -Aminobutyric Acid Receptor, Type A (GABA <sub>A</sub> ), $\alpha 2$ Subunit Knock-in Mouse. <i>Journal of Biological Chemistry</i> , 2016, 291, 12394-12407.	3.4	68
16	Compromising KCC2 transporter activity enhances the development of continuous seizure activity. <i>Neuropharmacology</i> , 2016, 108, 103-110.	4.1	42
17	Regulating the Efficacy of Inhibition Through Trafficking of $\alpha 3$ -Aminobutyric Acid Type A Receptors. <i>Anesthesia and Analgesia</i> , 2016, 123, 1220-1227.	2.2	5
18	Copper and protons directly activate the zinc-activated channel. <i>Biochemical Pharmacology</i> , 2016, 103, 109-117.	4.4	16

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19	KCC2 activity is critical in limiting the onset and severity of status epilepticus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3523-3528.	7.1	139
20	Compromising the phosphodependent regulation of the GABA <sub>A</sub> R $\alpha$ 3 subunit reproduces the core phenotypes of autism spectrum disorders. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14805-14810.	7.1	41
21	GABAA Receptor Genetics and Clinical Pharmacology. Current Anesthesiology Reports, 2014, 4, 42-48.	2.0	3
22	Neural circuits with long-distance axon tracts for determining functional connectivity. Journal of Neuroscience Methods, 2014, 222, 82-90.	2.5	14
23	Phosphorylation of GABAA receptors influences receptor trafficking and neurosteroid actions. Psychopharmacology, 2014, 231, 3453-3465.	3.1	47
24	Neurosteroids promote phosphorylation and membrane insertion of extrasynaptic GABA <sub>A</sub> receptors. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7132-7137.	7.1	95
25	Disrupted Cl <sup>-</sup> homeostasis contributes to reductions in the inhibitory efficacy of diazepam during hyperexcited states. European Journal of Neuroscience, 2013, 38, 2453-2467.	2.6	32
26	Enhanced Tonic Inhibition Influences the Hypnotic and Amnestic Actions of the Intravenous Anesthetics Etomidate and Propofol. Journal of Neuroscience, 2013, 33, 7264-7273.	3.6	31
27	Functional regulation of GABAA receptors in nervous system pathologies. Current Opinion in Neurobiology, 2012, 22, 552-558.	4.2	114
28	Memory Deficits Induced by Inflammation Are Regulated by $\alpha$ 5-Subunit-Containing GABAA Receptors. Cell Reports, 2012, 2, 488-496.	6.4	147
29	Allosteric modulation of the 5-HT <sub>3</sub> receptor. Current Opinion in Pharmacology, 2011, 11, 75-80.	3.5	45
30	NMDA receptor activity downregulates KCC2 resulting in depolarizing GABAA receptor-mediated currents. Nature Neuroscience, 2011, 14, 736-743.	14.8	268
31	Hyperpolarizing GABAergic transmission depends on KCC2 function and membrane potential. Channels, 2011, 5, 475-481.	2.8	16
32	The Residence Time of GABA <sub>A</sub> Rs at Inhibitory Synapses Is Determined by Direct Binding of the Receptor $\alpha$ 1 Subunit to Gephyrin. Journal of Neuroscience, 2011, 31, 14677-14687.	3.6	134
33	High-level expression and purification of Cys-loop ligand-gated ion channels in a tetracycline-inducible stable mammalian cell line: GABA <sub>A</sub> and serotonin receptors. Protein Science, 2010, 19, 1728-1738.	7.6	40
34	Ethanol Stabilizes the Open State of Single 5-Hydroxytryptamine <sub>3A</sub> (QDA) Receptors. Journal of Pharmacology and Experimental Therapeutics, 2010, 333, 896-902.	2.5	9
35	Protein Kinase C Phosphorylation Regulates Membrane Insertion of GABAA Receptor Subtypes That Mediate Tonic Inhibition. Journal of Biological Chemistry, 2010, 285, 41795-41805.	3.4	87
36	3B but which 3B? And that's just one of the questions: the heterogeneity of human 5-HT <sub>3</sub> receptors. Trends in Pharmacological Sciences, 2008, 29, 437-444.	8.7	67

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37	High-frequency <i>HTR3B</i> variant associated with major depression dramatically augments the signaling of the human 5-HT <sub>3AB</sub> receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 722-727.	7.1	72
38	Characterization of the effects of four <i>HTR3B</i> polymorphisms on human 5-HT <sub>3AB</sub> receptor expression and signalling. <i>Pharmacogenetics and Genomics</i> , 2008, 18, 1027-1040.	1.5	8
39	Differential Effects of Serotonin and Dopamine on Human 5-HT <sub>3A</sub> Receptor Kinetics: Interpretation within an Allosteric Kinetic Model. <i>Journal of Neuroscience</i> , 2007, 27, 13151-13160.	3.6	46
40	Molecular Properties Important for Inhaled Anesthetic Action on Human 5-HT <sub>3A</sub> Receptors. <i>Anesthesia and Analgesia</i> , 2005, 100, 1696-1703.	2.2	40
41	Modulation of Human 5-Hydroxytryptamine Type 3AB Receptors by Volatile Anesthetics and n-Alcohols. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 314, 338-345.	2.5	50
42	General Anesthetic-Induced Channel Gating Enhancement of 5-Hydroxytryptamine Type 3 Receptors Depends on Receptor Subunit Composition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 315, 771-776.	2.5	52
43	5-HT <sub>3A</sub> receptor kinetics: Agonist and anesthetic action. <i>International Congress Series</i> , 2005, 1283, 247-250.	0.2	0
44	General anesthetic action on 5-HT <sub>3</sub> receptors: Influence of subunit composition. <i>International Congress Series</i> , 2005, 1283, 79-84.	0.2	0
45	Introduction of the 5-HT <sub>3B</sub> subunit alters the functional properties of 5-HT <sub>3</sub> receptors native to neuroblastoma cells. <i>Neuropharmacology</i> , 2003, 44, 214-223.	4.1	55
46	A Novel Class of Ligand-gated Ion Channel Is Activated by Zn <sup>2+</sup> . <i>Journal of Biological Chemistry</i> , 2003, 278, 712-717.	3.4	130
47	Alternative transcripts of the GABAA receptor $\hat{\mu}$ subunit in human and rat. <i>Neuropharmacology</i> , 2002, 43, 467-475.	4.1	18
48	Evidence for Expression of Heteromeric Serotonin 5-HT <sub>3</sub> Receptors in Rodents. <i>Journal of Neurochemistry</i> , 2001, 75, 240-247.	3.9	82
49	Evidence for the formation of functionally distinct $\hat{\alpha}1\hat{\alpha}3\hat{\mu}$ GABA A receptors. <i>Journal of Physiology</i> , 2001, 537, 101-113.	2.9	35
50	The influence of an endogenous $\hat{\alpha}3$ subunit on recombinant GABAA receptor assembly and pharmacology in WSS-1 cells and transiently transfected HEK293 cells. <i>Neuropharmacology</i> , 2000, 39, 611-620.	4.1	22
51	The 5-HT <sub>3B</sub> subunit is a major determinant of serotonin-receptor function. <i>Nature</i> , 1999, 397, 359-363.	27.8	559
52	Modulation by general anaesthetics of rat GABAA receptors comprised of $\hat{\alpha}1\hat{\alpha}3$ and $\hat{\alpha}3$ subunits expressed in human embryonic kidney 293 cells. <i>British Journal of Pharmacology</i> , 1997, 120, 899-909.	5.4	88
53	Insensitivity to anaesthetic agents conferred by a class of GABAA receptor subunit. <i>Nature</i> , 1997, 385, 820-823.	27.8	392