William B Guggino

List of Publications by Year
in descending order

54 papers	4,080 citations	172457 29 h-index	182427 51 g-index
56 all docs	56 docs citations	56 times ranked	3571 citing authors

#	Article	IF	Citations
1	From CFTR biology toward combinatorial pharmacotherapy: expanded classification of cystic fibrosis mutations. Molecular Biology of the Cell, 2016, 27, 424-433.	2.1	446
2	Defective regulation of outwardly rectifying Clâ^' channels by protein kinase A corrected by insertion of CFTR. Nature, 1992, 358, 581-584.	27.8	433
3	CFTR Is a Conductance Regulator as well as a Chloride Channel. Physiological Reviews, 1999, 79, S145-S166.	28.8	394
4	New insights into cystic fibrosis: molecular switches that regulate CFTR. Nature Reviews Molecular Cell Biology, 2006, 7, 426-436.	37.0	389
5	Structure of nucleotide-binding domain 1 of the cystic fibrosis transmembrane conductance regulator. EMBO Journal, 2004, 23, 282-293.	7.8	376
6	Peptide binding consensus of the NHE-RF-PDZ1 domain matches the C-terminal sequence of cystic fibrosis transmembrane conductance regulator (CFTR). FEBS Letters, 1998, 427, 103-108.	2.8	252
7	cAMP Regulates Cell Proliferation and Cyst Formation in Autosomal Polycystic Kidney Disease Cells. Journal of the American Society of Nephrology: JASN, 2000, 11, 1179-1187.	6.1	233
8	Safety and Biological Efficacy of an Adeno-Associated Virus Vector-Cystic Fibrosis Transmembrane Regulator (AAV-CFTR) in the Cystic Fibrosis Maxillary Sinus. Laryngoscope, 1999, 109, 266-274.	2.0	193
9	Lung gene therapy with highly compacted DNA nanoparticles that overcome the mucus barrier. Journal of Controlled Release, 2014, 178, 8-17.	9.9	160
10	Overcoming the Cystic Fibrosis Sputum Barrier to Leading Adeno-associated Virus Gene Therapy Vectors. Molecular Therapy, 2014, 22, 1484-1493.	8.2	75
11	The Cystic Fibrosis Transmembrane Regulator Forms Macromolecular Complexes with PDZ Domain Scaffold Proteins. Proceedings of the American Thoracic Society, 2004, 1, 28-32.	3.5	59
12	Inhibition of histone deacetylase 6 activity reduces cyst growth in polycystic kidney disease. Kidney International, 2016, 90, 90-99.	5.2	58
13	Functional Characterization of a Recombinant Adeno- Associated Virus 5-Pseudotyped Cystic Fibrosis Transmembrane Conductance Regulator Vector. Human Gene Therapy, 2004, 15, 832-841.	2.7	57
14	Macromolecular Interactions and Ion Transport in Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2004, 170, 815-820.	5.6	55
15	Polycystin-1 Interacts with Inositol 1,4,5-Trisphosphate Receptor to Modulate Intracellular Ca2+ Signaling with Implications for Polycystic Kidney Disease. Journal of Biological Chemistry, 2009, 284, 36431-36441.	3.4	49
16	Dual Reporter Comparative Indexing of rAAV Pseudotyped Vectors in Chimpanzee Airway. Molecular Therapy, 2010, 18, 594-600.	8.2	49
17	Expression of a Truncated Cystic Fibrosis Transmembrane Conductance Regulator with an AAV5-pseudotyped Vector in Primates. Molecular Therapy, 2007, 15, 756-763.	8.2	48
18	CFTR: domains, structure, and function. Journal of Bioenergetics and Biomembranes, 1997, 29, 443-451.	2.3	41

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19	Rescuing Trafficking Mutants of the ATP-binding Cassette Protein, ABCA4, with Small Molecule Correctors as a Treatment for Stargardt Eye Disease. Journal of Biological Chemistry, 2015, 290, 19743-19755.	3.4	41
20	Rescue of NBD2 Mutants N1303K and S1235R of CFTR by Small-Molecule Correctors and Transcomplementation. PLoS ONE, 2015, 10, e0119796.	2.5	40
21	Combination of Correctors Rescue Î”F508-CFTR by Reducing Its Association with Hsp40 and Hsp27. Journal of Biological Chemistry, 2015, 290, 25636-25645.	3.4	40
22	Adeno-Associated Virus (AAV) gene therapy for cystic fibrosis: current barriers and recent developments. Expert Opinion on Biological Therapy, 2017, 17, 1265-1273.	3.1	40
23	Sequences in the Amino Termini of GABA Ï•and GABA_A Subunits Specify Their Selective Interaction In Vitro. Journal of Neurochemistry, 1998, 70, 40-46.	3.9	39
24	Mis-regulation of Mammalian Target of Rapamycin (mTOR) Complexes Induced by Albuminuria in Proximal Tubules. Journal of Biological Chemistry, 2014, 289, 16790-16801.	3.4	38
25	Delayed Expression of Adeno-Associated Virus Vector DNA. Intervirology, 1999, 42, 213-220.	2.8	33
26	Cystic Fibrosis Transmembrane Regulator Missing the First Four Transmembrane Segments Increases Wild Type and Î”F508 Processing*. Journal of Biological Chemistry, 2008, 283, 21926-21933.	3.4	33
27	Cloning and characterization of maxi K⁺channel Î±-subunit in rabbit kidney. American Journal of Physiology - Renal Physiology, 1997, 273, F615-F624.	2.7	32
28	Cystic Fibrosis Transmembrane Conductance Regulator And The Outwardly Rectifying Chloride Channel: A Relationship Between Two Chloride Channels Expressed In Epithelial Cells. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 892-895.	1.9	32
29	Gene transfer by lipofection in rabbit and human secretory epithelial cells. Pflugers Archiv European Journal of Physiology, 1989, 415, 198-203.	2.8	31
30	Alterations in a voltage-gated K+ current during the differentiation of ML-1 human myeloblastic leukemia cells. Journal of Membrane Biology, 1993, 132, 267-74.	2.1	31
31	Wireless control of cellular function by activation of a novel protein responsive to electromagnetic fields. Scientific Reports, 2018, 8, 8764.	3.3	30
32	Polycystin-1 Negatively Regulates Polycystin-2 Expression via the Aggresome/Autophagosome Pathway. Journal of Biological Chemistry, 2014, 289, 6404-6414.	3.4	29
33	Ca2+-activated K+ channels from cultured renal medullary thick ascending limb cells: Effects of pH. Journal of Membrane Biology, 1989, 110, 49-55.	2.1	26
34	Correctors Rescue CFTR Mutations in Nucleotideâ€Binding Domain 1 (NBD1) by Modulating Proteostasis. ChemBioChem, 2016, 17, 493-505.	2.6	26
35	Histone deacetylase 6 inhibition reduces cysts by decreasing cAMP and Ca2+ in knock-out mouse models of polycystic kidney disease. Journal of Biological Chemistry, 2017, 292, 17897-17908.	3.4	26
36	Arginine vasopressin regulates CFTR and ClC-2 mRNA expression in rat kidney cortex and medulla. Pflugers Archiv European Journal of Physiology, 2001, 443, 202-211.	2.8	17

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37	A Preclinical Study in Rhesus Macaques for Cystic Fibrosis to Assess Gene Transfer and Transduction by AAV1 and AAV5 with a Dual-Luciferase Reporter System. Human Gene Therapy Clinical Development, 2017, 28, 145-156.	3.1	16
38	Transcomplementation by a Truncation Mutant of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Enhances Î”F508 Processing through a Biomolecular Interaction. Journal of Biological Chemistry, 2013, 288, 10505-10512.	3.4	13
39	Rescue of CFTR NBD2 mutants N1303K and S1235R is influenced by the functioning of the autophagosome. Journal of Cystic Fibrosis, 2018, 17, 582-594.	0.7	13
40	Correcting the Cystic Fibrosis Disease Mutant, A455E CFTR. PLoS ONE, 2014, 9, e85183.	2.5	13
41	Role of calcium in adult onset polycystic kidney disease. Cellular Signalling, 2019, 53, 140-150.	3.6	11
42	Gene Therapy for Cystic Fibrosis Paved the Way for the Use of Adeno-Associated Virus in Gene Therapy. Human Gene Therapy, 2020, 31, 538-541.	2.7	11
43	The CFTR-Associated Ligand Arrests the Trafficking of the Mutant Î”F508 CFTR Channel in the ER Contributing to Cystic Fibrosis. Cellular Physiology and Biochemistry, 2018, 45, 639-655.	1.6	9
44	Megalin-mediated albumin endocytosis in renal proximal tubules is involved in the antiproteinuric effect of angiotensin II type 1 receptor blocker in a subclinical acute kidney injury animal model. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129950.	2.4	9
45	Identification and regulation of whole-cell Cl? and Ca2+-activated K+ currents in cultured medullary thick ascending limb cells. Journal of Membrane Biology, 1993, 135, 181-9.	2.1	7
46	Transduction of Surface and Basal Cells in Rhesus Macaque Lung Following Repeat Dosing with AAV1CFTR. Human Gene Therapy, 2020, 31, 1010-1023.	2.7	7
47	Complement yourself: transcomplementation rescues partially folded mutant proteins. Biophysical Reviews, 2014, 6, 169-180.	3.2	6
48	A new role for heat shock factor 27 in the pathophysiology of Clostridium difficile toxin B. American Journal of Physiology - Renal Physiology, 2020, 318, G120-G129.	3.4	4
49	The Mitochondrial Ca2+ import complex is altered in ADPKD. Cell Calcium, 2022, 101, 102501.	2.4	3
50	Short-Term Steroid Treatment of Rhesus Macaque Increases Transduction. Human Gene Therapy, 2022, 33, 131-147.	2.7	3
51	Restoration of F508-del Function by Transcomplementation: The Partners Meet in the Endoplasmic Reticulum. Cellular Physiology and Biochemistry, 2019, 52, 1267-1279.	1.6	2
52	Signalling Pathways Have Different Expression Profiles in Human Platelets Isolated from Men and Women.. Blood, 2006, 108, 1519-1519.	1.4	0
53	High Throughâ€put Screening for the Calcium Entry Stimulantsâ€â€â€â€â€mplications in the Cystic Fibrosis Therapy. FASEB Journal, 2007, 21, A959.	0.5	0
54	Response : Chloride Channels in Cystic Fibrosis Patients. Science, 1990, 247, 222-222.	12.6	0