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A single conductance pore for chloride ions formed by two cystic fibrosis transmembrane conductance regulator molecules

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#	Paper	IF	Citations
62	CFTR channel gating: incremental progress in irreversible steps. <i>Journal of General Physiology</i> , 1999 , 114, 49-53	3.4	7
61	Removal of multiple arginine-framed trafficking signals overcomes misprocessing of delta F508 CFTR present in most patients with cystic fibrosis. <i>Molecular Cell</i> , 1999 , 4, 137-42	17.6	135
60	Function of the second nucleotide-binding fold in the CFTR chloride channel. <i>FEBS Letters</i> , 1999 , 459, 177-85	3.8	8
59	Symmetry and structure in P-glycoprotein and ABC transporters what goes around comes around. <i>FEBS Journal</i> , 2000 , 267, 5298-305		22
58	Defects in processing and trafficking of cystic fibrosis transmembrane conductance regulator. <i>Nephron Experimental Nephrology</i> , 2000 , 8, 332-42		10
57	E3KARP mediates the association of ezrin and protein kinase A with the cystic fibrosis transmembrane conductance regulator in airway cells. <i>Journal of Biological Chemistry</i> , 2000 , 275, 29539-44	5.4	172
56	Cystic fibrosis transmembrane conductance regulator. Structure and function of an epithelial chloride channel. <i>Journal of Biological Chemistry</i> , 2000 , 275, 3729-32	5.4	92
55	Severed channels probe regulation of gating of cystic fibrosis transmembrane conductance regulator by its cytoplasmic domains. <i>Journal of General Physiology</i> , 2000 , 116, 477-500	3.4	106
54	Interaction between permeation and gating in a putative pore domain mutant in the cystic fibrosis transmembrane conductance regulator. <i>Biophysical Journal</i> , 2000 , 79, 298-313	2.9	39
53	Accessory protein facilitated CFTR-CFTR interaction, a molecular mechanism to potentiate the chloride channel activity. <i>Cell</i> , 2000 , 103, 169-79	56.2	269
52	Interdomain but not intermolecular interactions observed in CFTR channels. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 288, 819-26	3.4	2
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49	Terminal sialylation is altered in airway cells with impaired CFTR-mediated chloride transport. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 280, L482-92	5.8	22
48	Identification of a region of strong discrimination in the pore of CFTR. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001 , 281, L852-67	5.8	47
47	PDZ domains: More than just a glue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 787-9	11.5	91
46	Regulation of cystic fibrosis transmembrane conductance regulator single-channel gating by bivalent PDZ-domain-mediated interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1300-1305	11.5	187

45	The structure of the multidrug resistance protein 1 (MRP1/ABCC1). crystallization and single-particle analysis. <i>Journal of Biological Chemistry</i> , 2001 , 276, 16076-82	5.4	118
44	Subunit arrangement of gamma-aminobutyric acid type A receptors. <i>Journal of Biological Chemistry</i> , 2001 , 276, 36275-80	5.4	180
43	Distinct Mg(2+)-dependent steps rate limit opening and closing of a single CFTR Cl(-) channel. <i>Journal of General Physiology</i> , 2002 , 119, 545-59	3.4	20
42	The endogenous calcium-activated Cl channel in <i>Xenopus</i> oocytes: A physiologically and biophysically rich model system. <i>Current Topics in Membranes</i> , 2002 , 53, 3-39	2.2	12
41	Polar residues in membrane domains of proteins: molecular basis for helix-helix association in a mutant CFTR transmembrane segment. <i>Biochemistry</i> , 2002 , 41, 3647-53	3.2	53
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39	The cystic fibrosis transmembrane conductance regulator: an intriguing protein with pleiotropic functions. <i>Journal of Cystic Fibrosis</i> , 2002 , 1, 13-29	4.1	108
38	Domain-domain associations in cystic fibrosis transmembrane conductance regulator. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C1170-80	5.4	20
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32	A domain mimic increases DeltaF508 CFTR trafficking and restores cAMP-stimulated anion secretion in cystic fibrosis epithelia. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 287, C192-9	5.4	18
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24	Variable reactivity of an engineered cysteine at position 338 in cystic fibrosis transmembrane conductance regulator reflects different chemical states of the thiol. <i>Journal of Biological Chemistry</i> , 2006 , 281, 8275-85	5.4	27
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21	DeltaF508 mutation results in impaired gastric acid secretion. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6068-74	5.4	39
20	Regulation of function by dimerization through the amino-terminal membrane-spanning domain of human ABCC1/MRP1. <i>Journal of Biological Chemistry</i> , 2007 , 282, 8821-30	5.4	40
19	NHE-RF1 protein rescues DeltaF508-CFTR function. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 292, L1085-94	5.8	16
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15	Three-dimensional reconstruction of human cystic fibrosis transmembrane conductance regulator chloride channel revealed an ellipsoidal structure with orifices beneath the putative transmembrane domain. <i>Journal of Biological Chemistry</i> , 2008 , 283, 30300-10	5.4	38
14	Curcumin cross-links cystic fibrosis transmembrane conductance regulator (CFTR) polypeptides and potentiates CFTR channel activity by distinct mechanisms. <i>Journal of Biological Chemistry</i> , 2009 , 284, 30754-65	5.4	28
13	Oligomerization of human ATP-binding cassette transporters and its potential significance in human disease. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2009 , 5, 1049-63	5.5	18
12	The Δ 508-CFTR mutation inhibits wild-type CFTR processing and function when co-expressed in human airway epithelia and in mouse nasal mucosa. <i>BMC Physiology</i> , 2012 , 12, 12	0	10
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8	Mathematical model reveals that heterogeneity in the number of ion transporters regulates the fraction of mouse sperm capacitation.		
7	Ion Channels in Epithelial Cells. 2007 , 425-445		0
6	Regulation of cystic fibrosis transmembrane conductance regulator single-channel gating by bivalent PDZ-domain-mediated interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1300-5	11.5	115
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