Paul Linsdell

List of Publications by Year
in descending order

95 papers	3,474 citations	117453 34 h-index	155451 55 g-index
95 all docs	95 docs citations	95 times ranked	1710 citing authors

#	Article	IF	Citations
1	Glutathione permeability of CFTR. American Journal of Physiology - Cell Physiology, 1998, 275, C323-C326.	2.1	244
2	Permeability of Wild-Type and Mutant Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channels to Polyatomic Anions. Journal of General Physiology, 1997, 110, 355-364.	0.9	199
3	Adenosine Triphosphateâ€“dependent Asymmetry of Anion Permeation in the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel. Journal of General Physiology, 1998, 111, 601-614.	0.9	138
4	Disease-associated Mutations in the Fourth Cytoplasmic Loop of Cystic Fibrosis Transmembrane Conductance Regulator Compromise Biosynthetic Processing and Chloride Channel Activity. Journal of Biological Chemistry, 1996, 271, 15139-15145.	1.6	105
5	Halide Permeation in Wild-Type and Mutant Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channels. Journal of General Physiology, 1997, 110, 341-354.	0.9	104
6	Mechanism of chloride permeation in the cystic fibrosis transmembrane conductance regulator chloride channel. Experimental Physiology, 2006, 91, 123-129.	0.9	98
7	Cytoplasmic Loop Three of Cystic Fibrosis Transmembrane Conductance Regulator Contributes to Regulation of Chloride Channel Activity. Journal of Biological Chemistry, 1996, 271, 27493-27499.	1.6	93
8	Molecular Determinants of Anion Selectivity in the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Biophysical Journal, 2000, 78, 2973-2982.	0.2	90
9	Characterization of basolateral K + channels underlying anion secretion in the human airway cell line Caluâ€3. Journal of Physiology, 2002, 538, 747-757.	1.3	84
10	Multi-Ion Mechanism for Ion Permeation and Block in the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel. Journal of General Physiology, 1997, 110, 365-377.	0.9	83
11	Mechanism of direct bicarbonate transport by the CFTR anion channel. Journal of Cystic Fibrosis, 2009, 8, 115-121.	0.3	83
12	Relationship between anion binding and anion permeability revealed by mutagenesis within the cystic fibrosis transmembrane conductance regulator chloride channel pore. Journal of Physiology, 2001, 531, 51-66.	1.3	81
13	Location of a Common Inhibitor Binding Site in the Cytoplasmic Vestibule of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Journal of Biological Chemistry, 2005, 280, 8945-8950.	1.6	75
14	Positive Charges at the Intracellular Mouth of the Pore Regulate Anion Conduction in the CFTR Chloride Channel. Journal of General Physiology, 2006, 128, 535-545.	0.9	73
15	Non-pore lining amino acid side chains influence anion selectivity of the human CFTR Clâ^'channel expressed in mammalian cell lines. Journal of Physiology, 1998, 512, 1-16.	1.3	69
16	Molecular determinants of Au(CN)2â^'binding and permeability within the cystic fibrosis transmembrane conductance regulator Clâ^'channel pore. Journal of Physiology, 2002, 540, 39-47.	1.3	68
17	Regulation of conductance by the number of fixed positive charges in the intracellular vestibule of the CFTR chloride channel pore. Journal of General Physiology, 2010, 135, 229-245.	0.9	65
18	Direct Comparison of the Functional Roles Played by Different Transmembrane Regions in the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Journal of Biological Chemistry, 2004, 279, 55283-55289.	1.6	62

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19	Oxidant stress stimulates anion secretion from the human airway epithelial cell line caluâ€3: implications for cystic fibrosis lung disease. Journal of Physiology, 2002, 543, 201-209.	1.3	59
20	Alignment of transmembrane regions in the cystic fibrosis transmembrane conductance regulator chloride channel pore. Journal of General Physiology, 2011, 138, 165-178.	0.9	54
21	Changes in Accessibility of Cytoplasmic Substances to the Pore Associated with Activation of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel. Journal of Biological Chemistry, 2010, 285, 32126-32140.	1.6	53
22	Molecular Determinants and Role of An Anion Binding Site in the External Mouth of the CFTR Chloride Channel Pore. Journal of Physiology, 2003, 549, 387-397.	1.3	50
23	Functional architecture of the CFTR chloride channel. Molecular Membrane Biology, 2014, 31, 1-16.	2.0	46
24	Architecture and functional properties of the CFTR channel pore. Cellular and Molecular Life Sciences, 2017, 74, 67-83.	2.4	44
25	Contribution of KCNQ1 to the regulatory volume decrease in the human mammary epithelial cell line MCF-7. American Journal of Physiology - Cell Physiology, 2007, 293, C1010-C1019.	2.1	42
26	Mutation-induced Blocker Permeability and Multiion Block of the CFTR Chloride Channel Pore. Journal of General Physiology, 2003, 122, 673-687.	0.9	41
27	Identification of positive charges situated at the outer mouth of the CFTR chloride channel pore. Pflugers Archiv European Journal of Physiology, 2008, 457, 351-360.	1.3	41
28	Functional arrangement of the 12th transmembrane region in the CFTR chloride channel pore based on functional investigation of a cysteine-less CFTR variant. Pflugers Archiv European Journal of Physiology, 2011, 462, 559-571.	1.3	41
29	Novel Regulation of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Channel Gating by External Chloride. Journal of Biological Chemistry, 2004, 279, 41658-41663.	1.6	40
30	Asymmetric Structure of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore Suggested by Mutagenesis of the Twelfth Transmembrane Regionâ€. Biochemistry, 2001, 40, 6620-6627.	1.2	39
31	Identification of a Second Blocker Binding Site at the Cytoplasmic Mouth of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Molecular Pharmacology, 2007, 71, 1360-1368.	1.0	39
32	Substrates of multidrug resistance-associated proteins block the cystic fibrosis transmembrane conductance regulator chloride channel. British Journal of Pharmacology, 1999, 126, 1471-1477.	2.7	38
33	Multiple inhibitory effects of Au(CN)2â^'ions on cystic fibrosis transmembrane conductance regulator Clâ^'channel currents. Journal of Physiology, 2002, 540, 29-38.	1.3	37
34	Novel Residues Lining the CFTR Chloride Channel Pore Identified by Functional Modification of Introduced Cysteines. Journal of Membrane Biology, 2009, 228, 151-164.	1.0	36
35	Functional Architecture of the Cytoplasmic Entrance to the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Journal of Biological Chemistry, 2015, 290, 15855-15865.	1.6	36
36	Inhibition of cystic fibrosis transmembrane conductance regulator chloride channel currents by arachidonic acid. Canadian Journal of Physiology and Pharmacology, 2000, 78, 490-499.	0.7	35

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37	Elevation of cytosolic calcium by cholinoceptor agonists in SHâ€“SY5Y human neuroblastoma cells: estimation of the contribution of voltageâ€dependent currents. British Journal of Pharmacology, 1992, 107, 207-214.	2.7	32
38	Relative contribution of different transmembrane segments to the CFTR chloride channel pore. Pflugers Archiv European Journal of Physiology, 2014, 466, 477-490.	1.3	32
39	Mechanism of lonidamine inhibition of the CFTR chloride channel. British Journal of Pharmacology, 2002, 137, 928-936.	2.7	31
40	Thiocyanate as a probe of the cystic fibrosis transmembrane conductance regulator chloride channel pore. Canadian Journal of Physiology and Pharmacology, 2001, 79, 573-579.	0.7	29
41	Alternating Access to the Transmembrane Domain of the ATP-binding Cassette Protein Cystic Fibrosis Transmembrane Conductance Regulator (ABCC7). Journal of Biological Chemistry, 2012, 287, 10156-10165.	1.6	28
42	Cystic fibrosis transmembrane conductance regulator chloride channel blockers: Pharmacological, biophysical and physiological relevance. World Journal of Biological Chemistry, 2014, 5, 26.	1.7	28
43	Direct block of the cystic fibrosis transmembrane conductance regulator Clâ^' channel by butyrate and phenylbutyrate. European Journal of Pharmacology, 2001, 411, 255-260.	1.7	27
44	Cystic fibrosis transmembrane conductance regulator (CFTR): Making an ion channel out of an active transporter structure. Channels, 2018, 12, 284-290.	1.5	27
45	Direct and Indirect Effects of Mutations at the Outer Mouth of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Journal of Membrane Biology, 2007, 216, 129-142.	1.0	26
46	State-dependent Access of Anions to the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Journal of Biological Chemistry, 2008, 283, 6102-6109.	1.6	26
47	Tuning of CFTR Chloride Channel Function by Location of Positive Charges within the Pore. Biophysical Journal, 2012, 103, 1719-1726.	0.2	26
48	Cytoplasmic pathway followed by chloride ions to enter the CFTR channel pore. Cellular and Molecular Life Sciences, 2016, 73, 1917-1925.	2.4	26
49	The patch-clamp and planar lipid bilayer techniques: powerful and versatile tools to investigate the CFTR Clâ^' channel. Journal of Cystic Fibrosis, 2004, 3, 101-108.	0.3	25
50	Maximization of the rate of chloride conduction in the CFTR channel pore by ionâ€“ion interactions. Archives of Biochemistry and Biophysics, 2004, 426, 78-82.	1.4	25
51	Tyrosine kinase and phosphatase regulation of slow delayed-rectifier K+current in guinea-pig ventricular myocytes. Journal of Physiology, 2006, 573, 469-482.	1.3	25
52	Point mutations in the pore region directly or indirectly affect glibenclamide block of the CFTR chloride channel. Pflugers Archiv European Journal of Physiology, 2002, 443, 739-747.	1.3	23
53	Coupled Movement of Permeant and Blocking Ions in the CFTR Chloride Channel Pore. Journal of Physiology, 2003, 549, 375-385.	1.3	21
54	On the Origin of Asymmetric Interactions between Permeant Anions and the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore. Biophysical Journal, 2007, 92, 1241-1253.	0.2	21

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55	Relative Movements of Transmembrane Regions at the Outer Mouth of the Cystic Fibrosis Transmembrane Conductance Regulator Channel Pore during Channel Gating. Journal of Biological Chemistry, 2012, 287, 32136-32146.	1.6	21
56	Anion conductance selectivity mechanism of the CFTR chloride channel. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 740-747.	1.4	20
57	Conformational change opening the CFTR chloride channel pore coupled to ATP-dependent gating. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 851-860.	1.4	19
58	Functional organization of cytoplasmic portals controlling access to the cystic fibrosis transmembrane conductance regulator (CFTR) chloride channel pore. Journal of Biological Chemistry, 2018, 293, 5649-5658.	1.6	19
59	[11] Patch-clamp studies of cystic fibrosis transmembrane conductance regulator chloride channel. Methods in Enzymology, 1998, 293, 169-194.	0.4	18
60	Extent of the selectivity filter conferred by the sixth transmembrane region in the CFTR chloride channel pore. Molecular Membrane Biology, 2003, 20, 45-52.	2.0	18
61	Molecular mechanism of arachidonic acid inhibition of the CFTR chloride channel. European Journal of Pharmacology, 2007, 563, 88-91.	1.7	17
62	Functional Differences in Pore Properties Between Wild-Type and Cysteine-Less Forms of the CFTR Chloride Channel. Journal of Membrane Biology, 2011, 243, 15-23.	1.0	17
63	Regulation of CFTR chloride channel macroscopic conductance by extracellular bicarbonate. American Journal of Physiology - Cell Physiology, 2011, 300, C65-C74.	2.1	17
64	State-dependent blocker interactions with the CFTR chloride channel: implications for gating the pore. Pflugers Archiv European Journal of Physiology, 2014, 466, 2243-2255.	1.3	16
65	The cystic fibrosis transmembrane conductance regulator is an extracellular chloride sensor. Pflugers Archiv European Journal of Physiology, 2015, 467, 1783-1794.	1.3	16
66	Contribution of the eighth transmembrane segment to the function of the CFTR chloride channel pore. Cellular and Molecular Life Sciences, 2019, 76, 2411-2423.	2.4	15
67	Metal bridges to probe membrane ion channel structure and function. Biomolecular Concepts, 2015, 6, 191-203.	1.0	14
68	Location of a permeant anion binding site in the cystic fibrosis transmembrane conductance regulator chloride channel pore. Journal of Physiological Sciences, 2015, 65, 233-241.	0.9	13
69	Contribution of a leucine residue in the first transmembrane segment to the selectivity filter region in the CFTR chloride channel. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1049-1058.	1.4	13
70	Metal Bridges Illuminate Transmembrane Domain Movements during Gating of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel. Journal of Biological Chemistry, 2014, 289, 28149-28159.	1.6	12
71	Conformational changes opening and closing the CFTR chloride channel: Insights from cysteine scanning mutagenesis. Biochemistry and Cell Biology, 2014, 92, 481-488.	0.9	12
72	Evidence that extracellular anions interact with a site outside the CFTR chloride channel pore to modify channel properties. Canadian Journal of Physiology and Pharmacology, 2009, 87, 387-395.	0.7	11

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73	Interactions between permeant and blocking anions inside the CFTR chloride channel pore. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1573-1590.	1.4	11
74	Exposure to sodium butyrate leads to functional downregulation of calcium-activated potassium channels in human airway epithelial cells. Pflugers Archiv European Journal of Physiology, 2006, 453, 167-176.	1.3	9
75	Pharmacological separation of hEAG and hERG K+ channel function in the human mammary carcinoma cell line MCF-7. Oncology Reports, 2008, , .	1.2	9
76	Role of the Juxtamembrane Region of Cytoplasmic Loop 3 in the Gating and Conductance of the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel. Biochemistry, 2012, 51, 3971-3981.	1.2	9
77	Pseudohalide anions reveal a novel extracellular site for potentiators to increase CFTR function. British Journal of Pharmacology, 2012, 167, 1062-1075.	2.7	9
78	Regulation of wild-type and mutant KCNQ1/KCNE1 channels by tyrosine kinase. Pflugers Archiv European Journal of Physiology, 2009, 458, 471-480.	1.3	8
79	Interaction between 2 extracellular loops influences the activity of the cystic fibrosis transmembrane conductance regulator chloride channel. Biochemistry and Cell Biology, 2014, 92, 390-396.	0.9	8
80	Structural Changes Fundamental to Gating of the Cystic Fibrosis Transmembrane Conductance Regulator Anion Channel Pore. Advances in Experimental Medicine and Biology, 2016, 925, 13-32.	0.8	8
81	Interactions between Impermeant Blocking Ions in the Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Pore: Evidence for Anion-Induced Conformational Changes. Journal of Membrane Biology, 2006, 210, 31-42.	1.0	7
82	Expression of the chloride channel CLC-K in human airway epithelial cells. Canadian Journal of Physiology and Pharmacology, 2005, 83, 1123-1128.	0.7	6
83	Role of kinases and G-proteins in the hyposmotic stimulation of cardiac IKs. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1641-1652.	1.4	6
84	On the relationship between anion binding and chloride conductance in the CFTR anion channel. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183558.	1.4	6
85	Selective block of swelling-activated Clâ^' channels over cAMP-dependent Clâ^' channels in ventricular myocytes. European Journal of Pharmacology, 2004, 491, 111-120.	1.7	5
86	Involvement of tyrosine kinase in the hyposmotic stimulation of I Ks in guinea-pig ventricular myocytes. Pflugers Archiv European Journal of Physiology, 2008, 456, 489-500.	1.3	5
87	Conformational change of the extracellular parts of the CFTR protein during channel gating. Cellular and Molecular Life Sciences, 2018, 75, 3027-3038.	2.4	5
88	Insensitivity of cardiac delayed-rectifier I Kr to tyrosine phosphorylation inhibitors and stimulators. British Journal of Pharmacology, 2006, 148, 724-731.	2.7	4
89	Electrostatic Tuning of Anion Attraction from the Cytoplasm to the Pore of the CFTR Chloride Channel. Cell Biochemistry and Biophysics, 2020, 78, 15-22.	0.9	4
90	Two positively charged amino acid side-chains in the inner vestibule of the CFTR channel pore play analogous roles in controlling anion binding and anion conductance. Cellular and Molecular Life Sciences, 2021, 78, 5213-5223.	2.4	2

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91	Alternating access to the transmembrane domain of the ATP-binding cassette protein cystic fibrosis transmembrane conductance regulator (ABCC7).. Journal of Biological Chemistry, 2012, 287, 27448.	1.6	1
92	Monovalent: Divalent Anion Selectivity in the CFTR Channel Pore. Cell Biochemistry and Biophysics, 2021, 79, 863-871.	0.9	1
93	Dexamethasoneâ€enhanced sodium absorption in the human mammary epithelial cell line, MCFâ€7. FASEB Journal, 2006, 20, A794.	0.2	0
94	Involvement of KCNQ1 K+ channels in cell volume regulation in human mammary epithelial cells. FASEB Journal, 2007, 21, A543.	0.2	0
95	Functionally additive fixed positive and negative charges inÂthe CFTR channel pore control anion binding and conductance. Journal of Biological Chemistry, 2022, 298, 101659.	1.6	0