

Tip W Loo

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114
papers

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114
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ext. citations

4.9
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L-index

#	Paper	IF	Citations
114	Location of high affinity Ca ²⁺ -binding sites within the predicted transmembrane domain of the sarcoplasmic reticulum Ca ²⁺ -ATPase. <i>Nature</i> , 1989 , 339, 476-8	50.4	570
113	Membrane topology of a cysteine-less mutant of human P-glycoprotein. <i>Journal of Biological Chemistry</i> , 1995 , 270, 843-8	5.4	207
112	Correction of defective protein kinesis of human P-glycoprotein mutants by substrates and modulators. <i>Journal of Biological Chemistry</i> , 1997 , 272, 709-12	5.4	192
111	Location of the rhodamine-binding site in the human multidrug resistance P-glycoprotein. <i>Journal of Biological Chemistry</i> , 2002 , 277, 44332-8	5.4	169
110	Recent progress in understanding the mechanism of P-glycoprotein-mediated drug efflux. <i>Journal of Membrane Biology</i> , 2005 , 206, 173-85	2.3	162
109	Defining the drug-binding site in the human multidrug resistance P-glycoprotein using a methanethiosulfonate analog of verapamil, MTS-verapamil. <i>Journal of Biological Chemistry</i> , 2001 , 276, 14972-9	5.4	153
108	Determining the dimensions of the drug-binding domain of human P-glycoprotein using thiol cross-linking compounds as molecular rulers. <i>Journal of Biological Chemistry</i> , 2001 , 276, 36877-80	5.4	151
107	Rapid purification of human P-glycoprotein mutants expressed transiently in HEK 293 cells by nickel-chelate chromatography and characterization of their drug-stimulated ATPase activities. <i>Journal of Biological Chemistry</i> , 1995 , 270, 21449-52	5.4	150
106	Simultaneous binding of two different drugs in the binding pocket of the human multidrug resistance P-glycoprotein. <i>Journal of Biological Chemistry</i> , 2003 , 278, 39706-10	5.4	146
105	Substrate-induced conformational changes in the transmembrane segments of human P-glycoprotein. Direct evidence for the substrate-induced fit mechanism for drug binding. <i>Journal of Biological Chemistry</i> , 2003 , 278, 13603-6	5.4	139
104	Covalent modification of human P-glycoprotein mutants containing a single cysteine in either nucleotide-binding fold abolishes drug-stimulated ATPase activity. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22957-61	5.4	130
103	Mutations to amino acids located in predicted transmembrane segment 6 (TM6) modulate the activity and substrate specificity of human P-glycoprotein. <i>Biochemistry</i> , 1994 , 33, 14049-57	3.2	122
102	The "LSGGQ" motif in each nucleotide-binding domain of human P-glycoprotein is adjacent to the opposing walker A sequence. <i>Journal of Biological Chemistry</i> , 2002 , 277, 41303-6	5.4	120
101	Identification of residues in the drug-binding site of human P-glycoprotein using a thiol-reactive substrate. <i>Journal of Biological Chemistry</i> , 1997 , 272, 31945-8	5.4	117
100	The transmembrane domains of the human multidrug resistance P-glycoprotein are sufficient to mediate drug binding and trafficking to the cell surface. <i>Journal of Biological Chemistry</i> , 1999 , 274, 24759-65	5.4	110
99	Correctors promote maturation of cystic fibrosis transmembrane conductance regulator (CFTR)-processing mutants by binding to the protein. <i>Journal of Biological Chemistry</i> , 2007 , 282, 33247-33251	5.4	106
98	Identification of residues within the drug-binding domain of the human multidrug resistance P-glycoprotein by cysteine-scanning mutagenesis and reaction with dibromobimane. <i>Journal of Biological Chemistry</i> , 2000 , 275, 39272-8	5.4	106

97	P-glycoprotein. Associations between domains and between domains and molecular chaperones. <i>Journal of Biological Chemistry</i> , 1995 , 270, 21839-44	5.4	103
96	Drug binding in human P-glycoprotein causes conformational changes in both nucleotide-binding domains. <i>Journal of Biological Chemistry</i> , 2003 , 278, 1575-8	5.4	96
95	Identification of residues in the drug-binding domain of human P-glycoprotein. Analysis of transmembrane segment 11 by cysteine-scanning mutagenesis and inhibition by dibromobimane. <i>Journal of Biological Chemistry</i> , 1999 , 274, 35388-92	5.4	95
94	Nucleotide sequence and in vitro expression of rubella virus 24S subgenomic messenger RNA encoding the structural proteins E1, E2 and C. <i>Nucleic Acids Research</i> , 1987 , 15, 3041-57	20.1	95
93	Disease-associated mutations in the fourth cytoplasmic loop of cystic fibrosis transmembrane conductance regulator compromise biosynthetic processing and chloride channel activity. <i>Journal of Biological Chemistry</i> , 1996 , 271, 15139-45	5.4	93
92	Nucleotide sequence of the pntA and pntB genes encoding the pyridine nucleotide transhydrogenase of <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1986 , 158, 647-53		91
91	Predicting P-glycoprotein-mediated drug transport based on support vector machine and three-dimensional crystal structure of P-glycoprotein. <i>PLoS ONE</i> , 2011 , 6, e25815	3.7	89
90	Transmembrane segment 7 of human P-glycoprotein forms part of the drug-binding pocket. <i>Biochemical Journal</i> , 2006 , 399, 351-9	3.8	88
89	Specific rescue of cystic fibrosis transmembrane conductance regulator processing mutants using pharmacological chaperones. <i>Molecular Pharmacology</i> , 2006 , 70, 297-302	4.3	85
88	Drug-stimulated ATPase activity of human P-glycoprotein requires movement between transmembrane segments 6 and 12. <i>Journal of Biological Chemistry</i> , 1997 , 272, 20986-9	5.4	84
87	Chemical and pharmacological chaperones as new therapeutic agents. <i>Expert Reviews in Molecular Medicine</i> , 2007 , 9, 1-18	6.7	83
86	Superfolding of the partially unfolded core-glycosylated intermediate of human P-glycoprotein into the mature enzyme is promoted by substrate-induced transmembrane domain interactions. <i>Journal of Biological Chemistry</i> , 1998 , 273, 14671-4	5.4	82
85	The human multidrug resistance P-glycoprotein is inactive when its maturation is inhibited: potential for a role in cancer chemotherapy. <i>FASEB Journal</i> , 1999 , 13, 1724-32	0.9	80
84	Cytoplasmic loop three of cystic fibrosis transmembrane conductance regulator contributes to regulation of chloride channel activity. <i>Journal of Biological Chemistry</i> , 1996 , 271, 27493-9	5.4	80
83	The packing of the transmembrane segments of human multidrug resistance P-glycoprotein is revealed by disulfide cross-linking analysis. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5253-6	5.4	77
82	Transmembrane segment 1 of human P-glycoprotein contributes to the drug-binding pocket. <i>Biochemical Journal</i> , 2006 , 396, 537-45	3.8	76
81	The DeltaF508 mutation disrupts packing of the transmembrane segments of the cystic fibrosis transmembrane conductance regulator. <i>Journal of Biological Chemistry</i> , 2004 , 279, 39620-7	5.4	76
80	Vanadate trapping of nucleotide at the ATP-binding sites of human multidrug resistance P-glycoprotein exposes different residues to the drug-binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 3511-6	11.5	76

79	Corrector VX-809 stabilizes the first transmembrane domain of CFTR. <i>Biochemical Pharmacology</i> , 2013 , 86, 612-9	6	73
78	Identification of residues in the drug translocation pathway of the human multidrug resistance P-glycoprotein by arginine mutagenesis. <i>Journal of Biological Chemistry</i> , 2009 , 284, 24074-87	5.4	69
77	Mutational analysis of ABC proteins. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 476, 51-64	4.1	69
76	Determining the structure and mechanism of the human multidrug resistance P-glycoprotein using cysteine-scanning mutagenesis and thiol-modification techniques. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999 , 1461, 315-25	3.8	69
75	Inhibition of oxidative cross-linking between engineered cysteine residues at positions 332 in predicted transmembrane segments (TM) 6 and 975 in predicted TM12 of human P-glycoprotein by drug substrates. <i>Journal of Biological Chemistry</i> , 1996 , 271, 27482-7	5.4	69
74	Disease-associated mutations in cytoplasmic loops 1 and 2 of cystic fibrosis transmembrane conductance regulator impede processing or opening of the channel. <i>Biochemistry</i> , 1997 , 36, 11966-74	3.2	67
73	Rescue of DeltaF508 and other misprocessed CFTR mutants by a novel quinazoline compound. <i>Molecular Pharmaceutics</i> , 2005 , 2, 407-13	5.6	67
72	Methanethiosulfonate derivatives of rhodamine and verapamil activate human P-glycoprotein at different sites. <i>Journal of Biological Chemistry</i> , 2003 , 278, 50136-41	5.4	67
71	Processing mutations disrupt interactions between the nucleotide binding and transmembrane domains of P-glycoprotein and the cystic fibrosis transmembrane conductance regulator (CFTR). <i>Journal of Biological Chemistry</i> , 2008 , 283, 28190-7	5.4	66
70	Modulating the folding of P-glycoprotein and cystic fibrosis transmembrane conductance regulator truncation mutants with pharmacological chaperones. <i>Molecular Pharmacology</i> , 2007 , 71, 751-8	4.3	66
69	Do drug substrates enter the common drug-binding pocket of P-glycoprotein through "gates"?. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 329, 419-22	3.4	66
68	Disulfide cross-linking analysis shows that transmembrane segments 5 and 8 of human P-glycoprotein are close together on the cytoplasmic side of the membrane. <i>Journal of Biological Chemistry</i> , 2004 , 279, 7692-7	5.4	61
67	Cross-linking of human multidrug resistance P-glycoprotein by the substrate, tris-(2-maleimidoethyl)amine, is altered by ATP hydrolysis. Evidence for rotation of a transmembrane helix. <i>Journal of Biological Chemistry</i> , 2001 , 276, 31800-5	5.4	60
66	Molecular dissection of the human multidrug resistance P-glycoprotein. <i>Biochemistry and Cell Biology</i> , 1999 , 77, 11-23	3.6	60
65	Additive effect of multiple pharmacological chaperones on maturation of CFTR processing mutants. <i>Biochemical Journal</i> , 2007 , 406, 257-63	3.8	53
64	Human P-glycoprotein is active when the two halves are clamped together in the closed conformation. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 395, 436-40	3.4	52
63	Drug-stimulated ATPase activity of human P-glycoprotein is blocked by disulfide cross-linking between the nucleotide-binding sites. <i>Journal of Biological Chemistry</i> , 2000 , 275, 19435-8	5.4	52
62	Disulfiram metabolites permanently inactivate the human multidrug resistance P-glycoprotein. <i>Molecular Pharmaceutics</i> , 2004 , 1, 426-33	5.6	51

61	Rhodamine inhibitors of P-glycoprotein: an amide/thioamide "switch" for ATPase activity. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3328-41	8.3	50
60	The drug-binding pocket of the human multidrug resistance P-glycoprotein is accessible to the aqueous medium. <i>Biochemistry</i> , 2004 , 43, 12081-9	3.2	50
59	Val133 and Cys137 in transmembrane segment 2 are close to Arg935 and Gly939 in transmembrane segment 11 of human P-glycoprotein. <i>Journal of Biological Chemistry</i> , 2004 , 279, 18232-8	5.4	50
58	Rescue of folding defects in ABC transporters using pharmacological chaperones. <i>Journal of Bioenergetics and Biomembranes</i> , 2005 , 37, 501-7	3.7	50
57	The minimum functional unit of human P-glycoprotein appears to be a monomer. <i>Journal of Biological Chemistry</i> , 1996 , 271, 27488-92	5.4	49
56	The V510D suppressor mutation stabilizes DeltaF508-CFTR at the cell surface. <i>Biochemistry</i> , 2010 , 49, 6352-7	3.2	48
55	The ATPase activity of the P-glycoprotein drug pump is highly activated when the N-terminal and central regions of the nucleotide-binding domains are linked closely together. <i>Journal of Biological Chemistry</i> , 2012 , 287, 26806-16	5.4	48
54	Thapsigargin or curcumin does not promote maturation of processing mutants of the ABC transporters, CFTR, and P-glycoprotein. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 325, 580-5	3.4	48
53	Permanent activation of the human P-glycoprotein by covalent modification of a residue in the drug-binding site. <i>Journal of Biological Chemistry</i> , 2003 , 278, 20449-52	5.4	47
52	Quality control by proteases in the endoplasmic reticulum. Removal of a protease-sensitive site enhances expression of human P-glycoprotein. <i>Journal of Biological Chemistry</i> , 1998 , 273, 32373-6	5.4	45
51	Correctors promote folding of the CFTR in the endoplasmic reticulum. <i>Biochemical Journal</i> , 2008 , 413, 29-36	3.8	43
50	ATP hydrolysis promotes interactions between the extracellular ends of transmembrane segments 1 and 11 of human multidrug resistance P-glycoprotein. <i>Biochemistry</i> , 2005 , 44, 10250-8	3.2	40
49	The chemical chaperone CFCor-325 repairs folding defects in the transmembrane domains of CFTR-processing mutants. <i>Biochemical Journal</i> , 2006 , 395, 537-42	3.8	40
48	Chalcogenopyrylium compounds as modulators of the ATP-binding cassette transporters P-glycoprotein (P-gp/ABCB1) and multidrug resistance protein 1 (MRP1/ABCC1). <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 4683-99	8.3	38
47	Cystic fibrosis: channel, catalytic, and folding properties of the CFTR protein. <i>Journal of Bioenergetics and Biomembranes</i> , 1997 , 29, 429-42	3.7	38
46	Suppressor mutations in the transmembrane segments of P-glycoprotein promote maturation of processing mutants and disrupt a subset of drug-binding sites. <i>Journal of Biological Chemistry</i> , 2007 , 282, 32043-52	5.4	38
45	Human P-glycoprotein contains a greasy ball-and-socket joint at the second transmission interface. <i>Journal of Biological Chemistry</i> , 2013 , 288, 20326-33	5.4	36
44	Tariquidar inhibits P-glycoprotein drug efflux but activates ATPase activity by blocking transition to an open conformation. <i>Biochemical Pharmacology</i> , 2014 , 92, 558-66	6	35

43	Mapping the Binding Site of the Inhibitor Tariquidar That Stabilizes the First Transmembrane Domain of P-glycoprotein. <i>Journal of Biological Chemistry</i> , 2015 , 290, 29389-401	5.4	32
42	Corrector VX-809 promotes interactions between cytoplasmic loop one and the first nucleotide-binding domain of CFTR. <i>Biochemical Pharmacology</i> , 2017 , 136, 24-31	6	31
41	Correctors enhance maturation of DeltaF508 CFTR by promoting interactions between the two halves of the molecule. <i>Biochemistry</i> , 2009 , 48, 9882-90	3.2	31
40	Introduction of the most common cystic fibrosis mutation (Delta F508) into human P-glycoprotein disrupts packing of the transmembrane segments. <i>Journal of Biological Chemistry</i> , 2002 , 277, 27585-8	5.4	31
39	Mutational analysis of the predicted first transmembrane segment of each homologous half of human P-glycoprotein suggests that they are symmetrically arranged in the membrane. <i>Journal of Biological Chemistry</i> , 1996 , 271, 15414-9	5.4	29
38	Expression of rubella virus cDNA coding for the structural proteins. <i>Gene</i> , 1988 , 65, 23-30	3.8	27
37	The DCCD-binding polypeptide alone is insufficient for proton translocation through F0 in membranes of Escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , 1981 , 103, 52-9	3.4	25
36	Arginines in the first transmembrane segment promote maturation of a P-glycoprotein processing mutant by hydrogen bond interactions with tyrosines in transmembrane segment 11. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24860-70	5.4	24
35	Nucleotide binding, ATP hydrolysis, and mutation of the catalytic carboxylates of human P-glycoprotein cause distinct conformational changes in the transmembrane segments. <i>Biochemistry</i> , 2007 , 46, 9328-36	3.2	23
34	The DCCD-binding polypeptide is close to the F1 ATPase-binding site on the cytoplasmic surface of the cell membrane of Escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , 1982 , 106, 400-6	3.4	23
33	Processing mutations located throughout the human multidrug resistance P-glycoprotein disrupt interactions between the nucleotide binding domains. <i>Journal of Biological Chemistry</i> , 2004 , 279, 38395-401	5.4	22
32	The Transmission Interfaces Contribute Asymmetrically to the Assembly and Activity of Human P-glycoprotein. <i>Journal of Biological Chemistry</i> , 2015 , 290, 16954-63	5.4	21
31	The dileucine motif at the COOH terminus of human multidrug resistance P-glycoprotein is important for folding but not activity. <i>Journal of Biological Chemistry</i> , 2005 , 280, 2522-8	5.4	21
30	Structural analysis of a new GC-specific insertion element IS186. <i>FEBS Letters</i> , 1985 , 192, 47-52	3.8	21
29	A salt bridge in intracellular loop 2 is essential for folding of human p-glycoprotein. <i>Biochemistry</i> , 2013 , 52, 3194-6	3.2	20
28	Expression of a functionally active human renal sodium-calcium exchanger lacking a signal sequence. <i>Journal of Biological Chemistry</i> , 1995 , 270, 19345-50	5.4	20
27	Identification of the distance between the homologous halves of P-glycoprotein that triggers the high/low ATPase activity switch. <i>Journal of Biological Chemistry</i> , 2014 , 289, 8484-92	5.4	19
26	Locking intracellular helices 2 and 3 together inactivates human P-glycoprotein. <i>Journal of Biological Chemistry</i> , 2014 , 289, 229-36	5.4	18

25	Drug rescue distinguishes between different structural models of human P-glycoprotein. <i>Biochemistry</i> , 2013 , 52, 7167-9	3.2	18
24	Nonylphenol ethoxylates, but not nonylphenol, are substrates of the human multidrug resistance P-glycoprotein. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 247, 478-80	3.4	18
23	P-glycoprotein ATPase activity requires lipids to activate a switch at the first transmission interface. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 472, 379-83	3.4	18
22	The glycosylation and orientation in the membrane of the third cytoplasmic loop of human P-glycoprotein is affected by mutations and substrates. <i>Biochemistry</i> , 1999 , 38, 5124-9	3.2	17
21	Expression and mutation of Ca ²⁺ ATPases of the sarcoplasmic reticulum. <i>Cytoskeleton</i> , 1989 , 14, 26-34		17
20	Interaction of Escherichia coli F1-ATPase with dicyclohexylcarbodiimide-binding polypeptide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1983 , 733, 274-82	3.8	17
19	Insertion of an arginine residue into the transmembrane segments corrects protein misfolding. <i>Journal of Biological Chemistry</i> , 2006 , 281, 29436-40	5.4	16
18	Mutational analysis of human P-glycoprotein. <i>Methods in Enzymology</i> , 1998 , 292, 480-92	1.7	16
17	Corrector-mediated rescue of misprocessed CFTR mutants can be reduced by the P-glycoprotein drug pump. <i>Biochemical Pharmacology</i> , 2012 , 83, 345-54	6	15
16	Deletion of NH ₂ - and COOH-terminal sequences destroys function of the Ca ²⁺ ATPase of rabbit fast-twitch skeletal muscle sarcoplasmic reticulum. <i>FEBS Letters</i> , 1993 , 336, 168-70	3.8	15
15	Detection of antibodies to individual proteins of rubella virus. <i>Journal of Virological Methods</i> , 1986 , 13, 149-59	2.6	15
14	Bithiazole correctors rescue CFTR mutants by two different mechanisms. <i>Biochemistry</i> , 2013 , 52, 5161-3	3.2	13
13	Attachment of a molecular spring restores drug-stimulated ATPase activity to P-glycoprotein lacking both Q loop glutamines. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 366-370	3.4	12
12	Cysteines introduced into extracellular loops 1 and 4 of human P-glycoprotein that are close only in the open conformation spontaneously form a disulfide bond that inhibits drug efflux and ATPase activity. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24749-58	5.4	10
11	Benzbromarone stabilizes R508 CFTR at the cell surface. <i>Biochemistry</i> , 2011 , 50, 4393-5	3.2	10
10	The cystic fibrosis V232D mutation inhibits CFTR maturation by disrupting a hydrophobic pocket rather than formation of aberrant interhelical hydrogen bonds. <i>Biochemical Pharmacology</i> , 2014 , 88, 46-57	6	8
9	Thiorhodamines containing amide and thioamide functionality as inhibitors of the ATP-binding cassette drug transporter P-glycoprotein (ABCB1). <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 4290-302	3.4	8
8	Using a cysteine-less mutant to provide insight into the structure and mechanism of CFTR. <i>Journal of Physiology</i> , 2006 , 572, 312	3.9	7

7	The W232R suppressor mutation promotes maturation of a truncation mutant lacking both nucleotide-binding domains and restores interdomain assembly and activity of P-glycoprotein processing mutants. <i>Biochemistry</i> , 2011 , 50, 672-85	3.2	6
6	Repair of CFTR folding defects with correctors that function as pharmacological chaperones. <i>Methods in Molecular Biology</i> , 2011 , 741, 23-37	1.4	6
5	Drugs Modulate Interactions between the First Nucleotide-Binding Domain and the Fourth Cytoplasmic Loop of Human P-Glycoprotein. <i>Biochemistry</i> , 2016 , 55, 2817-20	3.2	5
4	Thiol-reactive drug substrates of human P-glycoprotein label the same sites to activate ATPase activity in membranes or dodecyl maltoside detergent micelles. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 488, 573-577	3.4	4
3	Niemann-Pick NPC1: sterols to the rescue and beyond. <i>Chemistry and Biology</i> , 2013 , 20, 297-8		3
2	Application of chemical chaperones to the rescue of folding defects. <i>Methods in Molecular Biology</i> , 2003 , 232, 231-43	1.4	3
1	A short cross-linker activates human P-glycoprotein missing a catalytic carboxylate. <i>Biochemical Pharmacology</i> , 2017 , 145, 27-33	6	2