

Frances Jane Sharom

List of Publications by Citations

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78
papers

5,671
citations

43
h-index

75
g-index

80
ext. papers

5,958
ext. citations

4.5
avg, IF

6.34
L-index

#	Paper	IF	Citations
78	ABC multidrug transporters: structure, function and role in chemoresistance. <i>Pharmacogenomics</i> , 2008 , 9, 105-27	2.6	734
77	ABC efflux pump-based resistance to chemotherapy drugs. <i>Chemical Reviews</i> , 2009 , 109, 2989-3011	68.1	457
76	The P-glycoprotein multidrug transporter. <i>Essays in Biochemistry</i> , 2011 , 50, 161-78	7.6	336
75	The membrane lipid environment modulates drug interactions with the P-glycoprotein multidrug transporter. <i>Biochemistry</i> , 1999 , 38, 6887-96	3.2	211
74	Site-directed fluorescence labeling of P-glycoprotein on cysteine residues in the nucleotide binding domains. <i>Biochemistry</i> , 1996 , 35, 11865-73	3.2	192
73	Complex Interplay between the P-Glycoprotein Multidrug Efflux Pump and the Membrane: Its Role in Modulating Protein Function. <i>Frontiers in Oncology</i> , 2014 , 4, 41	5.3	164
72	The effects of lipids and detergents on ATPase-active P-glycoprotein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993 , 1146, 65-72	3.8	152
71	Phospholipid flippase activity of the reconstituted P-glycoprotein multidrug transporter. <i>Biochemistry</i> , 2001 , 40, 6937-47	3.2	133
70	The reconstituted P-glycoprotein multidrug transporter is a flippase for glucosylceramide and other simple glycosphingolipids. <i>Biochemical Journal</i> , 2005 , 389, 517-26	3.8	130
69	ATPase activity of partially purified P-glycoprotein from multidrug-resistant Chinese hamster ovary cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1109, 149-60	3.8	123
68	Intrinsic fluorescence of the P-glycoprotein multidrug transporter: sensitivity of tryptophan residues to binding of drugs and nucleotides. <i>Biochemistry</i> , 2000 , 39, 14927-38	3.2	116
67	Glycosylphosphatidylinositol-anchored proteins: structure, function, and cleavage by phosphatidylinositol-specific phospholipase C. <i>Biochemistry and Cell Biology</i> , 2002 , 80, 535-49	3.6	105
66	Synthetic hydrophobic peptides are substrates for P-glycoprotein and stimulate drug transport. <i>Biochemical Journal</i> , 1996 , 320 (Pt 2), 421-8	3.8	96
65	Interaction of LDS-751 with P-glycoprotein and mapping of the location of the R drug binding site. <i>Biochemistry</i> , 2005 , 44, 643-55	3.2	94
64	Transport properties of P-glycoprotein in plasma membrane vesicles from multidrug-resistant Chinese hamster ovary cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1109, 161-71	3.8	92
63	FRET analysis indicates that the two ATPase active sites of the P-glycoprotein multidrug transporter are closely associated. <i>Biochemistry</i> , 2001 , 40, 1413-22	3.2	89
62	Multidrug resistance and chemosensitization: therapeutic implications for cancer chemotherapy. <i>Advances in Pharmacology</i> , 1990 , 21, 185-220	5.7	89

61	Interaction of the P-glycoprotein multidrug efflux pump with cholesterol: effects on ATPase activity, drug binding and transport. <i>Biochemistry</i> , 2008 , 47, 13686-98	3.2	88
60	Interaction of the P-glycoprotein multidrug transporter with peptides and ionophores. <i>Journal of Biological Chemistry</i> , 1995 , 270, 10334-41	5.4	85
59	Fluorescence studies on the nucleotide binding domains of the P-glycoprotein multidrug transporter. <i>Biochemistry</i> , 1997 , 36, 2836-43	3.2	83
58	Shedding light on drug transport: structure and function of the P-glycoprotein multidrug transporter (ABCB1). <i>Biochemistry and Cell Biology</i> , 2006 , 84, 979-92	3.6	83
57	Isolation and characterization of lipid rafts with different properties from RBL-2H3 (rat basophilic leukaemia) cells. <i>Biochemical Journal</i> , 2004 , 380, 219-30	3.8	80
56	Functional characterization of Escherichia coli MsbA: interaction with nucleotides and substrates. <i>Journal of Biological Chemistry</i> , 2008 , 283, 12840-50	5.4	78
55	Interaction of LDS-751 and rhodamine 123 with P-glycoprotein: evidence for simultaneous binding of both drugs. <i>Biochemistry</i> , 2005 , 44, 14020-9	3.2	76
54	Proximity of bound Hoechst 33342 to the ATPase catalytic sites places the drug binding site of P-glycoprotein within the cytoplasmic membrane leaflet. <i>Biochemistry</i> , 2002 , 41, 4744-52	3.2	76
53	Insights into the structure and substrate interactions of the P-glycoprotein multidrug transporter from spectroscopic studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999 , 1461, 327-45	3.8	75
52	Linear and cyclic peptides as substrates and modulators of P-glycoprotein: peptide binding and effects on drug transport and accumulation. <i>Biochemical Journal</i> , 1998 , 333 (Pt 3), 621-30	3.8	73
51	Drug transport by reconstituted P-glycoprotein in proteoliposomes. <i>FEBS Journal</i> , 2001 , 268, 1687-1697		71
50	The ATPase and ATP-binding functions of P-glycoprotein--modulation by interaction with defined phospholipids. <i>FEBS Journal</i> , 1998 , 256, 170-8		70
49	Stoichiometry and affinity of nucleotide binding to P-glycoprotein during the catalytic cycle. <i>Biochemistry</i> , 2003 , 42, 1170-7	3.2	65
48	Lipid bilayer properties control membrane partitioning, binding, and transport of p-glycoprotein substrates. <i>Biochemistry</i> , 2013 , 52, 343-54	3.2	58
47	Characterization of fluorescent sterol binding to purified human NPC1. <i>Journal of Biological Chemistry</i> , 2009 , 284, 1840-52	5.4	54
46	Release of the glycosylphosphatidylinositol-anchored enzyme ecto-5Xnucleotidase by phospholipase C: catalytic activation and modulation by the lipid bilayer. <i>Biochemical Journal</i> , 1998 , 332 (Pt 1), 101-9	3.8	54
45	P-Glycoprotein is localized in intermediate-density membrane microdomains distinct from classical lipid rafts and caveolar domains. <i>FEBS Journal</i> , 2005 , 272, 4924-37	5.7	53
44	Exploring the structure and function of the P-glycoprotein multidrug transporter using fluorescence spectroscopic tools. <i>Seminars in Cell and Developmental Biology</i> , 2001 , 12, 257-65	7.5	52

43	Transition state P-glycoprotein binds drugs and modulators with unchanged affinity, suggesting a concerted transport mechanism. <i>Biochemistry</i> , 2003 , 42, 1345-53	3.2	51
42	Combined chemical and enzymatic stable isotope labeling for quantitative profiling of detergent-insoluble membrane proteins isolated using Triton X-100 and Brij-96. <i>Journal of Proteome Research</i> , 2006 , 5, 349-60	5.6	50
41	The reconstituted Escherichia coli MsbA protein displays lipid flippase activity. <i>Biochemical Journal</i> , 2010 , 429, 195-203	3.8	48
40	Characterization and functional reconstitution of the multidrug transporter. <i>Journal of Bioenergetics and Biomembranes</i> , 1995 , 27, 15-22	3.7	48
39	Interaction of P-glycoprotein with defined phospholipid bilayers: a differential scanning calorimetric study. <i>Biochemistry</i> , 1997 , 36, 9807-15	3.2	45
38	Interaction of insecticides with mammalian P-glycoprotein and their effect on its transport function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 1750-7	3.8	45
37	PI-specific phospholipase C cleavage of a reconstituted GPI-anchored protein: modulation by the lipid bilayer. <i>Biochemistry</i> , 2002 , 41, 1398-408	3.2	44
36	The ABC transporter MsbA interacts with lipid A and amphipathic drugs at different sites. <i>Biochemical Journal</i> , 2009 , 419, 317-28	3.8	43
35	Proximity of the nucleotide binding domains of the P-glycoprotein multidrug transporter to the membrane surface: a resonance energy transfer study. <i>Biochemistry</i> , 1998 , 37, 6503-12	3.2	43
34	Proximity of the protein moiety of a GPI-anchored protein to the membrane surface: a FRET study. <i>Biochemistry</i> , 2002 , 41, 8368-76	3.2	40
33	Interaction of combinations of drugs, chemosensitizers, and peptides with the P-glycoprotein multidrug transporter. <i>Biochemical Pharmacology</i> , 1997 , 53, 1789-97	6	36
32	Overcoming tumor drug resistance with high-affinity taxanes: a SAR study of C2-modified 7-acyl-10-deacetyl cephalomannines. <i>ChemMedChem</i> , 2007 , 2, 691-701	3.7	36
31	Spectroscopic and biophysical approaches for studying the structure and function of the P-glycoprotein multidrug transporter. <i>Biochemistry and Cell Biology</i> , 1998 , 76, 695-708	3.6	35
30	GPI-anchored protein cleavage in the regulation of transmembrane signals. <i>Sub-Cellular Biochemistry</i> , 2004 , 37, 285-315	5.5	34
29	Phenotypic variability in hyperphosphatasia with seizures and neurologic deficit (Mabry syndrome). <i>American Journal of Medical Genetics, Part A</i> , 2012 , 158A, 553-8	2.5	32
28	P-glycoprotein (ABCB1) interacts directly with lipid-based anti-cancer drugs and platelet-activating factors. <i>Biochemistry and Cell Biology</i> , 2006 , 84, 1022-33	3.6	32
27	Strategies for the purification of P-glycoprotein from multidrug-resistant Chinese hamster ovary cells. <i>Protein Expression and Purification</i> , 1991 , 2, 256-65	2	32
26	Interaction of the P-Glycoprotein Multidrug Transporter with Sterols. <i>Biochemistry</i> , 2015 , 54, 6586-97	3.2	30

25	New insights into the drug binding, transport and lipid flippase activities of the p-glycoprotein multidrug transporter. <i>Journal of Bioenergetics and Biomembranes</i> , 2005 , 37, 481-7	3.7	30
24	Conformational and functional characterization of trapped complexes of the P-glycoprotein multidrug transporter. <i>Biochemical Journal</i> , 2006 , 399, 315-23	3.8	29
23	Synthesis and evaluation of Strychnos alkaloids as MDR reversal agents for cancer cell eradication. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 1148-55	3.4	27
22	Determining P-glycoprotein-drug interactions: evaluation of reconstituted P-glycoprotein in a liposomal system and LLC-MDR1 polarized cell monolayers. <i>Journal of Pharmacological and Toxicological Methods</i> , 2012 , 65, 64-74	1.7	27
21	Flipping and flopping—lipids on the move. <i>IUBMB Life</i> , 2011 , 63, 736-46	4.7	26
20	Proteins that bind and move lipids: MsbA and NPC1. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2012 , 47, 75-95	8.7	25
19	Oligomerization of the E5 protein of human papillomavirus type 16 occurs through multiple hydrophobic regions. <i>Virology</i> , 2003 , 313, 415-26	3.6	24
18	Reversible dimers of the atypical antipsychotic quetiapine inhibit p-glycoprotein-mediated efflux in vitro with increased binding affinity and in situ at the blood-brain barrier. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 305-17	5.7	21
17	Lipid-protein interactions of the human erythrocyte concanavalin A receptor in phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984 , 774, 110-8	3.8	19
16	Reconstitution of lymphocyte 5Xnucleotidase in lipid bilayers: behaviour and interaction with concanavalin A. <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1985 , 63, 1049-57		19
15	Interaction of LDS-751 with the drug-binding site of P-glycoprotein: a Trp fluorescence steady-state and lifetime study. <i>Archives of Biochemistry and Biophysics</i> , 2009 , 492, 17-28	4.1	14
14	Multidrug Resistance Protein: P-Glycoprotein223-262		13
13	Overexpression, purification, and structural analysis of the hydrophobic E5 protein from human papillomavirus type 16. <i>Protein Expression and Purification</i> , 2003 , 30, 1-10	2	13
12	Glycophorin A interacts with interleukin-2 and inhibits interleukin-2-dependent T-lymphocyte proliferation. <i>Cellular Immunology</i> , 1992 , 145, 223-39	4.4	13
11	Modulation of the cleavage of glycosylphosphatidylinositol-anchored proteins by specific bacterial phospholipases. <i>Biochemistry and Cell Biology</i> , 1996 , 74, 701-13	3.6	12
10	Fluorescence techniques for studying membrane transport proteins: the P-glycoprotein multidrug transporter. <i>Methods in Molecular Biology</i> , 2003 , 227, 109-28	1.4	10
9	Effects of C7 substitutions in a high affinity microtubule-binding taxane on antitumor activity and drug transport. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 4852-6	2.9	8
8	Fluorescence studies of drug binding and translocation by membrane transporters. <i>Methods in Molecular Biology</i> , 2010 , 637, 133-48	1.4	6

7	PROBING OF CONFORMATIONAL CHANGES, CATALYTIC CYCLE AND ABC TRANSPORTER FUNCTION 2003 , 107-133		6
6	Reconstitution of membrane transporters. <i>Methods in Molecular Biology</i> , 2003 , 227, 129-54	1.4	5
5	Interaction of concanavalin A and a divalent derivative with lymphocytes and reconstituted lymphocyte membrane glycoproteins. <i>Membrane Biochemistry</i> , 1989 , 8, 147-63		4
4	Kinetic validation of the models for P-glycoprotein ATP hydrolysis and vanadate-induced trapping. Proposal for additional steps. <i>PLoS ONE</i> , 2014 , 9, e98804	3.7	3
3	Multidrug Resistance Protein 2014 , 141-160		3
2	Lipid transporters and binding proteins; MsbA and NPC1. <i>FASEB Journal</i> , 2010 , 24, 408.1	0.9	
1	Regulation of the ATP Hydrolysis and Transport Cycles of the P-Glycoprotein Multidrug Transporter by Sterols and Phospholipids. <i>FASEB Journal</i> , 2013 , 27, 1026.1	0.9	