

# Thomas G Pomorski

## List of Publications by Citations

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88

papers

2,866

citations

31

h-index

52

g-index

101

ext. papers

3,274

ext. citations

5.1

avg, IF

5.09

L-index

#	Paper	IF	Citations
88	Drs2p-related P-type ATPases Dnf1p and Dnf2p are required for phospholipid translocation across the yeast plasma membrane and serve a role in endocytosis. <i>Molecular Biology of the Cell</i> , <b>2003</b> , 14, 1240-54	3.5	302
87	Lipid flippases and their biological functions. <i>Cellular and Molecular Life Sciences</i> , <b>2006</b> , 63, 2908-21	10.3	212
86	Loss of P4 ATPases Drs2p and Dnf3p disrupts aminophospholipid transport and asymmetry in yeast post-Golgi secretory vesicles. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 1632-42	3.5	124
85	Antigen recognition induces phosphatidylserine exposure on the cell surface of human CD8+ T cells. <i>Blood</i> , <b>2006</b> , 108, 4094-101	2.2	122
84	Lipid distribution and transport across cellular membranes. <i>Seminars in Cell and Developmental Biology</i> , <b>2001</b> , 12, 139-48	7.5	112
83	Lipid somersaults: Uncovering the mechanisms of protein-mediated lipid flipping. <i>Progress in Lipid Research</i> , <b>2016</b> , 64, 69-84	14.3	108
82	The Arabidopsis P4-ATPase ALA3 localizes to the golgi and requires a beta-subunit to function in lipid translocation and secretory vesicle formation. <i>Plant Cell</i> , <b>2008</b> , 20, 658-76	11.6	106
81	P4-ATPases: lipid flippases in cell membranes. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2014</b> , 466, 1227-40	4.6	86
80	Lipid traffic: the ABC of transbilayer movement. <i>Traffic</i> , <b>2000</b> , 1, 226-34	5.7	79
79	Intracellular targeting signals and lipid specificity determinants of the ALA/ALIS P4-ATPase complex reside in the catalytic ALA alpha-subunit. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 791-801	3.5	75
78	A lipid switch unlocks Parkinson's disease-associated ATP13A2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 9040-5	11.5	68
77	A novel ATP-binding cassette transporter from Leishmania is involved in transport of phosphatidylcholine analogues and resistance to alkyl-phospholipids. <i>Molecular Microbiology</i> , <b>2007</b> , 64, 1141-53	4.1	67
76	Membrane protein reconstitution into giant unilamellar vesicles: a review on current techniques. <i>European Biophysics Journal</i> , <b>2017</b> , 46, 103-119	1.9	65
75	A flippase-independent function of ATP8B1, the protein affected in familial intrahepatic cholestasis type 1, is required for apical protein expression and microvillus formation in polarized epithelial cells. <i>Hepatology</i> , <b>2010</b> , 51, 2049-60	11.2	61
74	Direct observation of proton pumping by a eukaryotic P-type ATPase. <i>Science</i> , <b>2016</b> , 351, 1469-73	33.3	57
73	Leishmania promastigotes lack phosphatidylserine but bind annexin V upon permeabilization or miltefosine treatment. <i>PLoS ONE</i> , <b>2012</b> , 7, e42070	3.7	56
72	Headgroup-specific exposure of phospholipids in ABCA1-expressing cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 26321-9	5.4	55

71	Structure and mechanism of ATP-dependent phospholipid transporters. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 461-75	4	53
70	A phospholipid uptake system in the model plant <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , <b>2015</b> , 6, 7649	17.4	52
69	New fluorescent probes reveal that flippase-mediated flip-flop of phosphatidylinositol across the endoplasmic reticulum membrane does not depend on the stereochemistry of the lipid. <i>Organic and Biomolecular Chemistry</i> , <b>2005</b> , 3, 1275-83	3.9	52
68	Stealth carriers for low-resolution structure determination of membrane proteins in solution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 317-28		51
67	Flippase activity detected with unlabeled lipids by shape changes of giant unilamellar vesicles. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 15559-68	5.4	51
66	Model cell membranes: discerning lipid and protein contributions in shaping the cell. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 205, 207-20	14.3	46
65	<i>Helicobacter pylori</i> -induced prostaglandin E(2) synthesis involves activation of cytosolic phospholipase A(2) in epithelial cells. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 804-10	5.4	44
64	Ergosterol is mainly located in the cytoplasmic leaflet of the yeast plasma membrane. <i>Traffic</i> , <b>2018</b> , 19, 198-214	5.7	40
63	Functional implications of the influence of ABCA1 on lipid microenvironment at the plasma membrane: a biophysical study. <i>FASEB Journal</i> , <b>2009</b> , 23, 1775-85	0.9	39
62	Formation and Characterization of Supported Lipid Bilayers Composed of Hydrogenated and Deuterated <i>Escherichia coli</i> Lipids. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144671	3.7	37
61	Flip-flop of fluorescently labeled phospholipids in proteoliposomes reconstituted with <i>Saccharomyces cerevisiae</i> microsomal proteins. <i>Eukaryotic Cell</i> , <b>2007</b> , 6, 1625-34		36
60	Identification of a novel mouse P4-ATPase family member highly expressed during spermatogenesis. <i>Journal of Cell Science</i> , <b>2009</b> , 122, 2866-76	5.3	34
59	Cell wall staining with Trypan blue enables quantitative analysis of morphological changes in yeast cells. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 107	5.7	33
58	Organization of fluorescent cholesterol analogs in lipid bilayers - lessons from cyclodextrin extraction. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 1822-8	3.8	32
57	The yeast plasma membrane ATP binding cassette (ABC) transporter Aus1: purification, characterization, and the effect of lipids on its activity. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 21835-43	5.4	29
56	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 241-54	5.7	28
55	DLC1 activation requires lipid interaction through a polybasic region preceding the RhoGAP domain. <i>Molecular Biology of the Cell</i> , <b>2009</b> , 20, 4400-11	3.5	28
54	Disruption of the lipid-transporting LdMT-LdRos3 complex in <i>Leishmania donovani</i> affects membrane lipid asymmetry but not host cell invasion. <i>PLoS ONE</i> , <b>2010</b> , 5, e12443	3.7	26

53	Induced dye leakage by PAMAM G6 does not imply dendrimer entry into vesicle lumen. <i>Soft Matter</i> , <b>2012</b> , 8, 8972	3.6	24
52	Lipid-conjugated fluorescent pH sensors for monitoring pH changes in reconstituted membrane systems. <i>Analyst, The</i> , <b>2015</b> , 140, 6313-20	5	22
51	The P5A ATPase Spf1p is stimulated by phosphatidylinositol 4-phosphate and influences cellular sterol homeostasis. <i>Molecular Biology of the Cell</i> , <b>2019</b> , 30, 1069-1084	3.5	22
50	Pumping lipids with P4-ATPases. <i>Biological Chemistry</i> , <b>2011</b> , 392, 67-76	4.5	20
49	The dendrimer impact on vesicles can be tuned based on the bilayer charge and the presence of albumin. <i>Soft Matter</i> , <b>2013</b> , 9, 8862-70	3.6	19
48	Specific Activation of the Plant P-type Plasma Membrane H <sup>+</sup> -ATPase by Lysophospholipids Depends on the Autoinhibitory N- and C-terminal Domains. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 16281-91	5.4	18
47	Isolation of monodisperse nanodisc-reconstituted membrane proteins using free flow electrophoresis. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 3497-500	7.8	18
46	Serum albumin promotes ATP-binding cassette transporter-dependent sterol uptake in yeast. <i>FEMS Yeast Research</i> , <b>2014</b> , 14, 1223-33	3.1	16
45	Time-resolved small-angle neutron scattering as a probe for the dynamics of lipid exchange between human lipoproteins and naturally derived membranes. <i>Scientific Reports</i> , <b>2019</b> , 9, 7591	4.9	14
44	Active plasma membrane P-type H <sup>+</sup> -ATPase reconstituted into nanodiscs is a monomer. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 26419-29	5.4	14
43	Phosphorylation of StarD10 on serine 284 by casein kinase II modulates its lipid transfer activity. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 22492-8	5.4	13
42	Role of post-translational modifications at the $\beta$ subunit ectodomain in complex association with a promiscuous plant P4-ATPase. <i>Biochemical Journal</i> , <b>2016</b> , 473, 1605-15	3.8	13
41	Small Lipoprotein Atu8019 Is Involved in Selective Outer Membrane Vesicle (OMV) Docking to Bacterial Cells. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 1228	5.7	12
40	Novel approach to measure the size of plasma-membrane nanodomains in single molecule localization microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2015</b> , 87, 868-77	4.6	11
39	Grafted biomembranes containing membrane proteins--the case of the leucine transporter. <i>Soft Matter</i> , <b>2015</b> , 11, 7707-11	3.6	11
38	Biophysical study of resin acid effects on phospholipid membrane structure and properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2016</b> , 1858, 2827-2838	3.8	10
37	Transbilayer dynamics of phospholipids in the plasma membrane of the Leishmania genus. <i>PLoS ONE</i> , <b>2013</b> , 8, e55604	3.7	10
36	Bimolecular fluorescence complementation and interaction of various Arabidopsis major intrinsic proteins expressed in yeast. <i>Physiologia Plantarum</i> , <b>2013</b> , 148, 422-31	4.6	9

35	The transport mechanism of P4 ATPase lipid flippases. <i>Biochemical Journal</i> , <b>2020</b> , 477, 3769-3790	3.8	9
34	Pseudohyphal growth in involves protein kinase-regulated lipid flippases. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	9
33	Role of lipid transporters in fungal physiology and pathogenicity. <i>Computational and Structural Biotechnology Journal</i> , <b>2019</b> , 17, 1278-1289	6.8	8
32	The lipid head group is the key element for substrate recognition by the P4 ATPase ALA2: a phosphatidylserine flippase. <i>Biochemical Journal</i> , <b>2019</b> , 476, 783-794	3.8	8
31	Metabolic incorporation of unsaturated fatty acids into boar spermatozoa lipids and de novo formation of diacylglycerols. <i>Chemistry and Physics of Lipids</i> , <b>2014</b> , 177, 41-50	3.7	7
30	Purification and characterisation of the yeast plasma membrane ATP binding cassette transporter Pdr11p. <i>PLoS ONE</i> , <b>2017</b> , 12, e0184236	3.7	6
29	Synthesis and thermotropic phase behavior of four glycolycerolipids. <i>Molecules</i> , <b>2013</b> , 18, 13546-73	4.8	6
28	Label-Free Fluorescence Quantification of Hydrolytic Enzyme Activity on Native Substrates Reveals How Lipase Function Depends on Membrane Curvature. <i>Langmuir</i> , <b>2020</b> , 36, 6473-6481	4	6
27	Novel tool to quantify cell wall porosity relates wall structure to cell growth and drug uptake. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 1408-1421	7.3	6
26	Aminoglycerophospholipid flipping and P4-ATPases in <i>Toxoplasma gondii</i> . <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100315	5.4	5
25	Improved quantum efficiency in an engineered light harvesting/photosystem II super-complex for high current density biophotoanodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14463-14471	13	4
24	Ca <sup>2+</sup> -activated transbilayer movement of plasma membrane phospholipids in <i>Leishmania donovani</i> during ionomycin or thapsigargin stimulation. <i>Molecular and Biochemical Parasitology</i> , <b>2011</b> , 179, 59-68	1.9	4
23	Biophysical characterization of a new phospholipid analogue with a spin-labeled unsaturated fatty acyl chain. <i>Biophysical Journal</i> , <b>2009</b> , 96, 1008-15	2.9	4
22	Cell-Based Lipid Flippase Assay Employing Fluorescent Lipid Derivatives. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1377, 371-82	1.4	4
21	Application of image cytometry to characterize heterologous lipid flippases in yeast. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2016</b> , 89, 673-80	4.6	4
20	LEGO-Inspired Drug Design: Unveiling a Class of Benzo[d]thiazoles Containing a 3,4-Dihydroxyphenyl Moiety as Plasma Membrane H <sup>+</sup> -ATPase Inhibitors. <i>ChemMedChem</i> , <b>2018</b> , 13, 37-47	3.7	4
19	Short-chain lipid-conjugated pH sensors for imaging of transporter activities in reconstituted systems and living cells. <i>Analyst, The</i> , <b>2019</b> , 144, 3030-3037	5	3
18	Assay of Flippase Activity in Proteoliposomes Using Fluorescent Lipid Derivatives. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1377, 181-91	1.4	3

17	Structural requirements for membrane binding of human guanylate-binding protein 1. <i>FEBS Journal</i> , <b>2021</b> , 288, 4098-4114	5.7	3
16	Autoinhibition and regulation by phosphoinositides of ATP8B1, a human lipid flippase associated with intrahepatic cholestatic disorders.. <i>ELife</i> , <b>2022</b> , 11,	8.9	3
15	Measuring H(+) Pumping and Membrane Potential Formation in Sealed Membrane Vesicle Systems. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1377, 171-80	1.4	2
14	Chromatographic and electrophoretic methods for nanodisc purification and analysis. <i>Reviews in Analytical Chemistry</i> , <b>2014</b> , 33,	2.3	2
13	Imaging of Lipid Uptake in Seedlings Utilizing Fluorescent Lipids and Confocal Microscopy.. <i>Bio-protocol</i> , <b>2021</b> , 11, e4228	0.9	2
12	P-Type ATPase Apt1 of the Fungal Pathogen Is a Lipid Flippase of Broad Substrate Specificity. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2021</b> , 7,	5.6	2
11	CDC50A is required for aminophospholipid transport and cell fusion in mouse C2C12 myoblasts. <i>Journal of Cell Science</i> , <b>2022</b> , 135,	5.3	2
10	Endoplasmic reticulum phospholipid scramblase activity revealed after protein reconstitution into giant unilamellar vesicles containing a photostable lipid reporter. <i>Scientific Reports</i> , <b>2021</b> , 11, 14364	4.9	2
9	Creating a Proteoliposome Assay for Single Photosystem I Activity Assessment. <i>Biophysical Journal</i> , <b>2012</b> , 102, 626a-627a	2.9	1
8	Autoinhibition and regulation by phosphoinositides of ATP8B1, a human lipid flippase associated with intrahepatic cholestatic disorders		1
7	Non-invasive Quantification of Cell Wall Porosity by Fluorescence Quenching Microscopy. <i>Bio-protocol</i> , <b>2019</b> , 9, e3344	0.9	1
6	Functional Significance of Conserved Cysteines in the Extracellular Loops of the ATP Binding Cassette Transporter Pdr11p. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2020</b> , 7,	5.6	1
5	Chloroplast Ribosomes Interact With the Insertase Alb3 in the Thylakoid Membrane.. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 781857	6.2	0
4	Effects of 4-Br-A23187 on <i>Bacillus subtilis</i> cells and unilamellar vesicles reveal it to be a potent copper ionophore. <i>Proteomics</i> , 2200061	4.8	0
3	Flip or Flop: Mechanism and (Patho)Physiology of P4-ATPase-Catalyzed Lipid Transport <b>2011</b> , 147-170		
2	A Fluorescence-based Assay for Measuring Phospholipid Scramblase Activity in Giant Unilamellar Vesicles.. <i>Bio-protocol</i> , <b>2022</b> , 12, e4366	0.9	
1	NBD-lipid Uptake Assay for Mammalian Cell Lines.. <i>Bio-protocol</i> , <b>2022</b> , 12, e4330	0.9	