

Vytas A Bankaitis

List of Publications by Year in descending order

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108
papers

7,715
citations

44069

48
h-index

53230

85
g-index

127
all docs

127
docs citations

127
times ranked

5185
citing authors

#	ARTICLE	IF	CITATIONS
1	An essential role for a phospholipid transfer protein in yeast Golgi function. <i>Nature</i> , 1990, 347, 561-562.	27.8	556
2	The antifolding activity of SecB promotes the export of the E. coli maltose-binding protein. <i>Cell</i> , 1988, 53, 273-283.	28.9	366
3	Mutations in the CDP-choline pathway for phospholipid biosynthesis bypass the requirement for an essential phospholipid transfer protein. <i>Cell</i> , 1991, 64, 789-800.	28.9	363
4	Distinct sequence determinants direct intracellular sorting and modification of a yeast vacuolar protease. <i>Cell</i> , 1987, 48, 875-885.	28.9	340
5	Essential role for diacylglycerol in protein transport from the yeast Golgi complex. <i>Nature</i> , 1997, 387, 101-105.	27.8	264
6	Crystal structure of the <i>Saccharomyces cerevisiae</i> phosphatidylinositol-transfer protein. <i>Nature</i> , 1998, 391, 506-510.	27.8	260
7	Analysis of oxysterol binding protein homologue Kes1p function in regulation of Sec14p-dependent protein transport from the yeast Golgi complex. <i>Journal of Cell Biology</i> , 2002, 157, 63-78.	5.2	219
8	Mapping the Cellular Response to Small Molecules Using Chemogenomic Fitness Signatures. <i>Science</i> , 2014, 344, 208-211.	12.6	217
9	Functional Anatomy of Phospholipid Binding and Regulation of Phosphoinositide Homeostasis by Proteins of the Sec14 Superfamily. <i>Molecular Cell</i> , 2008, 29, 191-206.	9.7	210
10	Activation of the Phosphatidylinositol 3-Kinase Vps34 by a G Protein β Subunit at the Endosome. <i>Cell</i> , 2006, 126, 191-203.	28.9	202
11	A Sec14p-nodulin domain phosphatidylinositol transfer protein polarizes membrane growth of <i>Arabidopsis thaliana</i> root hairs. <i>Journal of Cell Biology</i> , 2005, 168, 801-812.	5.2	195
12	A role for phosphatidylinositol transfer protein in secretory vesicle formation. <i>Nature</i> , 1995, 377, 544-547.	27.8	193
13	The Sec14 superfamily and mechanisms for crosstalk between lipid metabolism and lipid signaling. <i>Trends in Biochemical Sciences</i> , 2010, 35, 150-160.	7.5	182
14	Phospholipid transfer proteins: a biological debut. <i>Trends in Cell Biology</i> , 1991, 1, 30-34.	7.9	165
15	The Phosphatidylinositol Transfer Protein Domain of <i>Drosophila</i> Retinal Degeneration B Protein Is Essential for Photoreceptor Cell Survival and Recovery from Light Stimulation. <i>Journal of Cell Biology</i> , 1997, 139, 351-363.	5.2	142
16	Identification of a Novel Family of Nonclassic Yeast Phosphatidylinositol Transfer Proteins Whose Function Modulates Phospholipase D Activity and Sec14p-independent Cell Growth. <i>Molecular Biology of the Cell</i> , 2000, 11, 1989-2005.	2.1	140
17	Pleiotropic Alterations in Lipid Metabolism in Yeast <i>sac1</i> Mutants: Relationship to Bypass Sec14p and Inositol Auxotrophy. <i>Molecular Biology of the Cell</i> , 1999, 10, 2235-2250.	2.1	138
18	Multiplexed precision genome editing with trackable genomic barcodes in yeast. <i>Nature Biotechnology</i> , 2018, 36, 512-520.	17.5	138

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19	Yeast Sec14p Deficient in Phosphatidylinositol Transfer Activity Is Functional In Vivo. <i>Molecular Cell</i> , 1999, 4, 187-197.	9.7	131
20	Functional Characterization of a Mammalian Sac1 and Mutants Exhibiting Substrate-specific Defects in Phosphoinositide Phosphatase Activity. <i>Journal of Biological Chemistry</i> , 2000, 275, 34293-34305.	3.4	123
21	Lipid Metabolism and Regulation of Membrane Trafficking. <i>Traffic</i> , 2000, 1, 195-202.	2.7	121
22	Intragenic suppressor mutations that restore export of maltose binding protein with a truncated signal peptide. <i>Cell</i> , 1984, 37, 243-252.	28.9	115
23	Mice Lacking Phosphatidylinositol Transfer Protein-1 \pm Exhibit Spinocerebellar Degeneration, Intestinal and Hepatic Steatosis, and Hypoglycemia. <i>Journal of Biological Chemistry</i> , 2003, 278, 33501-33518.	3.4	103
24	Phosphoinositide phosphatases in cell biology and disease. <i>Progress in Lipid Research</i> , 2010, 49, 201-217.	11.6	102
25	Identification of seipin-linked factors that act as determinants of a lipid droplet subpopulation. <i>Journal of Cell Biology</i> , 2018, 217, 269-282.	5.2	99
26	Inborn Errors of Long-Chain Fatty Acid 1 \pm -Oxidation Link Neural Stem Cell Self-Renewal to Autism. <i>Cell Reports</i> , 2016, 14, 991-999.	6.4	95
27	The Diverse Biological Functions of Phosphatidylinositol Transfer Proteins in Eukaryotes. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2006, 41, 21-49.	5.2	93
28	A Sterol-Binding Protein Integrates Endosomal Lipid Metabolism with TOR Signaling and Nitrogen Sensing. <i>Cell</i> , 2012, 148, 702-715.	28.9	83
29	A Phosphatidylinositol 3-Kinase and Phosphatidylinositol Transfer Protein Act Synergistically in Formation of Constitutive Transport Vesicles from the Trans-Golgi Network. <i>Journal of Biological Chemistry</i> , 1998, 273, 10349-10354.	3.4	82
30	Phosphatidylinositol transfer proteins: the long and winding road to physiological function. <i>Trends in Cell Biology</i> , 1998, 8, 276-282.	7.9	80
31	The <i>Schizosaccharomyces pombe</i> spo20 ⁺ Gene Encoding a Homologue of <i>Saccharomyces cerevisiae</i> Sec14 Plays an Important Role in Forespore Membrane Formation. <i>Molecular Biology of the Cell</i> , 2001, 12, 901-917.	2.1	74
32	A New Gene Involved in the Transport-dependent Metabolism of Phosphatidylserine, PSTB2/PDR17, Shares Sequence Similarity with the Gene Encoding the Phosphatidylinositol/Phosphatidylcholine Transfer Protein, SEC14. <i>Journal of Biological Chemistry</i> , 2000, 275, 14446-14456.	3.4	73
33	Activity of Specific Lipid-regulated ADP Ribosylation Factor-GTPase-activating Proteins Is Required for Sec14p-dependent Golgi Secretory Function in Yeast. <i>Molecular Biology of the Cell</i> , 2002, 13, 2193-2206.	2.1	72
34	Aggregation of 1 \pm -Synuclein in <i>S. cerevisiae</i> is Associated with Defects in Endosomal Trafficking and Phospholipid Biosynthesis. <i>Journal of Molecular Neuroscience</i> , 2011, 43, 391-405.	2.3	71
35	A phosphatidylinositol transfer protein integrates phosphoinositide signaling with lipid droplet metabolism to regulate a developmental program of nutrient stress-induced membrane biogenesis. <i>Molecular Biology of the Cell</i> , 2014, 25, 712-727.	2.1	71
36	Phosphatidylinositol transfer proteins and cellular nanoreactors for lipid signaling. <i>Nature Chemical Biology</i> , 2006, 2, 576-583.	8.0	65

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37	Enhancement of phosphoinositide 3-kinase (PI 3-kinase) activity by membrane curvature and inositol-phospholipid-binding peptides. <i>FEBS Journal</i> , 1998, 258, 846-853.	0.2	64
38	Golgi Membrane Dynamics and Lipid Metabolism. <i>Current Biology</i> , 2012, 22, R414-R424.	3.9	63
39	Nonclassical PITPs Activate PLD via the Stt4p PtdIns-4-kinase and Modulate Function of Late Stages of Exocytosis in Vegetative Yeast. <i>Traffic</i> , 2005, 6, 1157-1172.	2.7	62
40	Evidence for an Intrinsic Toxicity of Phosphatidylcholine to Sec14p-dependent Protein Transport from the Yeast Golgi Complex. <i>Molecular Biology of the Cell</i> , 2001, 12, 1117-1129.	2.1	60
41	Phospholipid metabolism and membrane dynamics. <i>Current Opinion in Cell Biology</i> , 1996, 8, 534-541.	5.4	59
42	Translational control of lipogenic enzymes in the cell cycle of synchronous, growing yeast cells. <i>EMBO Journal</i> , 2017, 36, 487-502.	7.8	59
43	The interface between phosphatidylinositol transfer protein function and phosphoinositide signaling in higher eukaryotes. <i>Journal of Lipid Research</i> , 2019, 60, 242-268.	4.2	59
44	Biological functions of phosphatidylinositol transfer proteins. <i>Biochemistry and Cell Biology</i> , 2004, 82, 254-262.	2.0	57
45	A Golgi Lipid Signaling Pathway Controls Apical Golgi Distribution and Cell Polarity during Neurogenesis. <i>Developmental Cell</i> , 2018, 44, 725-740.e4.	7.0	57
46	Phosphatidylinositol transfer proteins and instructive regulation of lipid kinase biology. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 724-735.	2.4	56
47	Conformational Dynamics of the Major Yeast Phosphatidylinositol Transfer Protein Sec14p: Insight into the Mechanisms of Phospholipid Exchange and Diseases of Sec14p-Like Protein Deficiencies. <i>Molecular Biology of the Cell</i> , 2007, 18, 1928-1942.	2.1	55
48	Lipids and the exocytotic machinery of eukaryotic cells. <i>Current Opinion in Cell Biology</i> , 2003, 15, 389-395.	5.4	54
49	Zebrafish Class 1 Phosphatidylinositol Transfer Proteins: PTP β and Double Cone Cell Outer Segment Integrity in Retina. <i>Traffic</i> , 2010, 11, 1151-1167.	2.7	54
50	Local Polarity and Hydrogen Bonding Inside the Sec14p Phospholipid-Binding Cavity: High-Field Multi-Frequency Electron Paramagnetic Resonance Studies. <i>Biophysical Journal</i> , 2007, 92, 3686-3695.	0.5	53
51	CELL BIOLOGY: Slick Recruitment to the Golgi. <i>Science</i> , 2002, 295, 290-291.	12.6	52
52	Chapter 3 The Use of Genetic Techniques to Analyze Protein Export in Escherichia coli. <i>Current Topics in Membranes and Transport</i> , 1985, 24, 105-150.	0.6	48
53	Mammalian diseases of phosphatidylinositol transfer proteins and their homologs. <i>Clinical Lipidology</i> , 2010, 5, 867-897.	0.4	46
54	Sec14-nodulin proteins and the patterning of phosphoinositide landmarks for developmental control of membrane morphogenesis. <i>Molecular Biology of the Cell</i> , 2015, 26, 1764-1781.	2.1	44

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55	Phosphatidylinositol transfer proteins: Negotiating the regulatory interface between lipid metabolism and lipid signaling in diverse cellular processes. <i>BioFactors</i> , 2011, 37, 290-308.	5.4	39
56	PITPs as targets for selectively interfering with phosphoinositide signaling in cells. <i>Nature Chemical Biology</i> , 2014, 10, 76-84.	8.0	39
57	Sec14-like phosphatidylinositol transfer proteins and the biological landscape of phosphoinositide signaling in plants. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1352-1364.	2.4	34
58	Resurrection of a functional phosphatidylinositol transfer protein from a pseudo-Sec14 scaffold by directed evolution. <i>Molecular Biology of the Cell</i> , 2011, 22, 892-905.	2.1	31
59	Phosphatidylinositol transfer protein function in the yeast <i>Saccharomyces cerevisiae</i> . <i>Advances in Enzyme Regulation</i> , 2005, 45, 155-170.	2.6	30
60	A Lipid Transfer Protein Signaling Axis Exerts Dual Control of Cell-Cycle and Membrane Trafficking Systems. <i>Developmental Cell</i> , 2018, 44, 378-391.e5.	7.0	30
61	Target Identification and Mechanism of Action of Picolinamide and Benzamide Chemotypes with Antifungal Properties. <i>Cell Chemical Biology</i> , 2018, 25, 279-290.e7.	5.2	28
62	The pathologies associated with functional titration of phosphatidylinositol transfer protein $\hat{\pm}$ activity in mice. <i>Journal of Lipid Research</i> , 2007, 48, 1857-1872.	4.2	27
63	The Cirque du Soleil of Golgi membrane dynamics. <i>Journal of Cell Biology</i> , 2009, 186, 169-171.	5.2	25
64	Dynamics and energetics of the mammalian phosphatidylinositol transfer protein phospholipid exchange cycle. <i>Journal of Biological Chemistry</i> , 2017, 292, 14438-14455.	3.4	25
65	Two-ligand priming mechanism for potentiated phosphoinositide synthesis is an evolutionarily conserved feature of Sec14-like phosphatidylinositol and phosphatidylcholine exchange proteins. <i>Molecular Biology of the Cell</i> , 2016, 27, 2317-2330.	2.1	24
66	Secretory Pathway Function in <i>Saccharomyces cerevisiae</i> . <i>Advances in Microbial Physiology</i> , 1992, 33, 73-144.	2.4	23
67	Thoughts on Sec14-like nanoreactors and phosphoinositide signaling. <i>Advances in Biological Regulation</i> , 2012, 52, 115-121.	2.3	23
68	Biophysical Parameters of the Sec14 Phospholipid Exchange Cycle. <i>Biophysical Journal</i> , 2019, 116, 92-103.	0.5	23
69	Vibrator and PI4KIII $\hat{\pm}$ govern neuroblast polarity by anchoring non-muscle myosin II. <i>ELife</i> , 2018, 7, .	6.0	22
70	The Chemistry of Phospholipid Binding by the <i>Saccharomyces cerevisiae</i> Phosphatidylinositol Transfer Protein Sec14p as Determined by EPR Spectroscopy. <i>Journal of Biological Chemistry</i> , 2006, 281, 34897-34908.	3.4	19
71	Functional studies of the mammalian Sac1 phosphoinositide phosphatase. <i>Advances in Enzyme Regulation</i> , 2009, 49, 75-86.	2.6	19
72	An equal opportunity collaboration between lipid metabolism and proteins in the control of membrane trafficking in the trans-Golgi and endosomal systems. <i>Current Opinion in Cell Biology</i> , 2019, 59, 58-72.	5.4	19

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73	The Yeast <i>BSD2-1</i> Mutation Influences Both the Requirement for Phosphatidylinositol Transfer Protein Function and Derepression of Phospholipid Biosynthetic Gene Expression in Yeast. <i>Genetics</i> , 1996, 143, 685-697.	2.9	19
74	Imidazole acetic acid as a substitute for cAMP. <i>Biochemical and Biophysical Research Communications</i> , 1979, 87, 566-574.	2.1	17
75	Functional diversification of the chemical landscapes of yeast Sec14-like phosphatidylinositol transfer protein lipid-binding cavities. <i>Journal of Biological Chemistry</i> , 2019, 294, 19081-19098.	3.4	17
76	Phosphatidylinositol synthase is required for lens structural integrity and photoreceptor cell survival in the zebrafish eye. <i>Experimental Eye Research</i> , 2011, 93, 460-474.	2.6	16
77	Noncanonical regulation of phosphatidylserine metabolism by a Sec14-like protein and a lipid kinase. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	16
78	Nodule-Specific Regulation of Phosphatidylinositol Transfer Protein Expression in <i>Lotus japonicus</i> . <i>Plant Cell</i> , 2001, 13, 1369-1382.	6.6	16
79	Structural elements that govern Sec14-like PITP sensitivities to potent small molecule inhibitors. <i>Journal of Lipid Research</i> , 2016, 57, 650-662.	4.2	15
80	Sec14-like phosphatidylinositol-transfer proteins and diversification of phosphoinositide signalling outcomes. <i>Biochemical Society Transactions</i> , 2014, 42, 1383-1388.	3.4	14
81	The oxysterol-binding protein superfamily: new concepts and old proteins. <i>Biochemical Society Transactions</i> , 2012, 40, 469-473.	3.4	13
82	The neural stem cell/carnitine malnutrition hypothesis: new prospects for effective reduction of autism risk?. <i>Journal of Biological Chemistry</i> , 2019, 294, 19424-19435.	3.4	13
83	Structural analysis of a plant fatty acid amide hydrolase provides insights into the evolutionary diversity of bioactive acylethanolamides. <i>Journal of Biological Chemistry</i> , 2019, 294, 7419-7432.	3.4	13
84	Phosphatidylinositol transfer proteins and functional specification of lipid signaling pools. <i>Advances in Enzyme Regulation</i> , 2007, 47, 27-40.	2.6	12
85	Quantitative profiling of the endonuclear glycerophospholipidome of murine embryonic fibroblasts. <i>Journal of Lipid Research</i> , 2016, 57, 1492-1506.	4.2	12
86	Phospholipid transfer proteins and physiological functions. <i>International Review of Cytology</i> , 2000, 197, 35-81.	6.2	11
87	Regulation of Phosphoinositide Levels by the Phospholipid Transfer Protein Sec14p Controls Cdc42p/p21-Activated Kinase-Mediated Cell Cycle Progression at Cytokinesis. <i>Eukaryotic Cell</i> , 2007, 6, 1814-1823.	3.4	10
88	A Sec14-like phosphatidylinositol transfer protein paralog defines a novel class of heme-binding proteins. <i>ELife</i> , 2020, 9, .	6.0	10
89	Sphingolipid metabolism in trans-golgi/endosomal membranes and the regulation of intracellular homeostatic processes in eukaryotic cells. <i>Advances in Enzyme Regulation</i> , 2010, 50, 339-348.	2.6	8
90	Phosphatidylinositol Synthase and Diacylglycerol Platforms Bust a Move. <i>Developmental Cell</i> , 2011, 21, 810-812.	7.0	7

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91	Emerging Prospects for Combating Fungal Infections by Targeting Phosphatidylinositol Transfer Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6754.	4.1	7
92	Translational control of lipogenesis links protein synthesis and phosphoinositide signaling with nuclear division in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2022, 220, .	2.9	7
93	Unsaturated fatty acid-induced non-canonical autophagy: unusual? or unappreciated?. <i>EMBO Journal</i> , 2015, 34, 978-980.	7.8	6
94	Lipid transfer proteins and instructive regulation of lipid kinase activities: Implications for inositol lipid signaling and disease. <i>Advances in Biological Regulation</i> , 2020, 78, 100740.	2.3	6
95	Devising Powerful Genetics, Biochemical and Structural Tools in the Functional Analysis of Phosphatidylinositol Transfer Proteins (PITPs) Across Diverse Species. <i>Methods in Cell Biology</i> , 2012, 108, 249-302.	1.1	5
96	Biophysical parameters of the Sec14 phospholipid exchange cycle – Effect of lipid packing in membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183450.	2.6	5
97	Phosphatidylinositol transfer protein function in the mouse. <i>Advances in Enzyme Regulation</i> , 2004, 44, 201-218.	2.6	4
98	Lipoprotein Lipase Sorting: Sphingomyelin and a Proteoglycan Show the Way. <i>Trends in Cell Biology</i> , 2020, 30, 170-172.	7.9	3
99	New strategies for combating fungal infections: Inhibiting inositol lipid signaling by targeting Sec14 phosphatidylinositol transfer proteins. <i>Advances in Biological Regulation</i> , 2022, 84, 100891.	2.3	3
100	Mechanistic insights relevant to protein secretion in yeast. <i>Current Opinion in Genetics and Development</i> , 1992, 2, 775-779.	3.3	1
101	Peer review: rigor? Or rigor mortis?. <i>EMBO Reports</i> , 2014, 15, 818-819.	4.5	1
102	The Role of Phosphoinositides in Signaling and Disease: Introduction to the Thematic Review Series. <i>Journal of Lipid Research</i> , 2019, 60, 227-228.	4.2	1
103	Lipidology: bridge between basic science and clinical pathology. <i>Future Lipidology</i> , 2008, 3, 611-623.	0.5	0
104	Phosphoinositide Signaling Meets Heme Biochemistry. <i>FASEB Journal</i> , 2018, 32, lb182.	0.5	0
105	A Reevaluation of the Role of Phosphatidylinositol Transfer Protein a in Growth Factor Signaling. <i>FASEB Journal</i> , 2018, 32, 540.5.	0.5	0
106	A Novel Multi-domain Phosphatidylinositol Transfer Protein/Oxysterol Binding Protein Senses Specific Phosphoinositide Pools On <i>Toxoplasma</i> Dense Granules. <i>FASEB Journal</i> , 2018, 32, 540.7.	0.5	0
107	Novel Regulation of Lipid Metabolism by a Phosphatidylinositol Transfer Protein and a Phosphatidylinositol 4-Kinase. <i>FASEB Journal</i> , 2019, 33, lb330.	0.5	0
108	Correction: Functional diversification of the chemical landscapes of yeast Sec14-like phosphatidylinositol transfer protein lipid-binding cavities.. <i>Journal of Biological Chemistry</i> , 2020, 295, 1368.	3.4	0