

Thomas J Pucadyil

List of Publications by Year in descending order

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65
papers

3,806
citations

136740

32
h-index

143772

57
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70
docs citations

70
times ranked

4322
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein-Protein Interactions on Membrane Surfaces Analysed Using Pull-Downs with Supported Bilayers on Silica Beads. <i>Journal of Membrane Biology</i> , 2022, 255, 591-597.	1.0	0
2	Metal-Binding Propensity in the Mitochondrial Dynamin-Related Protein 1. <i>Journal of Membrane Biology</i> , 2022, 255, 143-150.	1.0	1
3	Is Drp1 sufficient to catalyze membrane fission?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	1
4	Membrane Fission: Insights from Reconstituting Organelle Form and Chemistry. <i>Biophysical Journal</i> , 2021, 120, 195a-196a.	0.2	0
5	Function and regulation of the divisome for mitochondrial fission. <i>Nature</i> , 2021, 590, 57-66.	13.7	179
6	Molecular Interplay at the Membrane and Impact on Cellular Physiology. <i>Journal of Membrane Biology</i> , 2021, 254, 239-242.	1.0	1
7	Understanding membrane traffic from molecular ensemble, energetics, and the cell biology of participant components. <i>Current Opinion in Cell Biology</i> , 2021, 71, iii-vi.	2.6	2
8	A facile, sensitive and quantitative membrane-binding assay for proteins. <i>Traffic</i> , 2020, 21, 297-305.	1.3	10
9	PLiMAP: Proximity-Based Labeling of Membrane-Associated Proteins. <i>Current Protocols in Protein Science</i> , 2020, 101, e110.	2.8	9
10	Cellular functions and intrinsic attributes of the <sc>ATP</sc>-binding Eps15 homology domain-containing proteins. <i>Protein Science</i> , 2020, 29, 1321-1330.	3.1	6
11	A Screen for Membrane Fission Catalysts Identifies the ATPase EHD1. <i>Biochemistry</i> , 2019, 58, 65-71.	1.2	11
12	Excess area dependent scaling behavior of nano-sized membrane tethers. <i>Physical Biology</i> , 2018, 15, 026002.	0.8	15
13	ATP-dependent membrane remodeling links EHD1 functions to endocytic recycling. <i>Nature Communications</i> , 2018, 9, 5187.	5.8	40
14	Dynamin-related protein 1 has membrane constricting and severing abilities sufficient for mitochondrial and peroxisomal fission. <i>Nature Communications</i> , 2018, 9, 5239.	5.8	167
15	<i>Salmonella</i> SipA mimics a cognate SNARE for host Syntaxin8 to promote fusion with early endosomes. <i>Journal of Cell Biology</i> , 2018, 217, 4199-4214.	2.3	25
16	The 2018 biomembrane curvature and remodeling roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 343001.	1.3	212
17	SMrT Assay for Real-Time Visualization and Analysis of Clathrin Assembly Reactions. <i>Methods in Molecular Biology</i> , 2018, 1847, 161-175.	0.4	0
18	A novel fluorescence microscopic approach to quantitatively analyse protein-induced membrane remodelling. <i>Journal of Biosciences</i> , 2018, 43, 431-435.	0.5	0

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19	A novel fluorescence microscopic approach to quantitatively analyse protein-induced membrane remodelling. <i>Journal of Biosciences</i> , 2018, 43, 431-435.	0.5	0
20	Use of the supported membrane tube assay system for real-time analysis of membrane fission reactions. <i>Nature Protocols</i> , 2017, 12, 390-400.	5.5	24
21	The pleckstrin-homology domain of dynamin is dispensable for membrane constriction and fission. <i>Molecular Biology of the Cell</i> , 2017, 28, 152-160.	0.9	23
22	Sphingolipids modulate the function of human serotonin 1A receptors: Insights from sphingolipid-deficient cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 598-604.	1.4	18
23	Comparative analysis of adaptor-mediated clathrin assembly reveals general principles for adaptor clustering. <i>Molecular Biology of the Cell</i> , 2016, 27, 3156-3163.	0.9	15
24	Thomas Pucadyil: Piecing together membrane fission. <i>Journal of Cell Biology</i> , 2015, 211, 720-721.	2.3	0
25	Spatial Control of Epsin-induced Clathrin Assembly by Membrane Curvature. <i>Journal of Biological Chemistry</i> , 2015, 290, 14267-14276.	1.6	23
26	A high-throughput platform for real-time analysis of membrane fission reactions reveals dynamin function. <i>Nature Cell Biology</i> , 2015, 17, 1588-1596.	4.6	51
27	Analyzing membrane remodeling and fission using supported bilayers with excess membrane reservoir. <i>Nature Protocols</i> , 2013, 8, 213-222.	5.5	45
28	Geometric Catalysis of Membrane Fission Driven by Flexible Dynamin Rings. <i>Science</i> , 2013, 339, 1433-1436.	6.0	123
29	Dynamic Remodeling of Membranes Catalyzed by Dynamin. <i>Current Topics in Membranes</i> , 2011, 68, 33-47.	0.5	5
30	Differential curvature sensing and generating activities of dynamin isoforms provide opportunities for tissue-specific regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E234-42.	3.3	87
31	Supported Bilayers with Excess Membrane Reservoir: A Template for Reconstituting Membrane Budding and Fission. <i>Biophysical Journal</i> , 2010, 99, 517-525.	0.2	53
32	Chronic Cholesterol Depletion Using Statin Impairs the Function and Dynamics of Human Serotonin _{1A} Receptors. <i>Biochemistry</i> , 2010, 49, 5426-5435.	1.2	132
33	Conserved Functions of Membrane Active GTPases in Coated Vesicle Formation. <i>Science</i> , 2009, 325, 1217-1220.	6.0	160
34	An Intramolecular Signaling Element that Modulates Dynamin Function In Vitro and In Vivo. <i>Molecular Biology of the Cell</i> , 2009, 20, 3561-3571.	0.9	76
35	Membrane Insertion of the Pleckstrin Homology Domain Variable Loop 1 Is Critical for Dynamin-catalyzed Vesicle Scission. <i>Molecular Biology of the Cell</i> , 2009, 20, 4630-4639.	0.9	94
36	Dissecting dynamin's role in clathrin-mediated endocytosis. <i>Biochemical Society Transactions</i> , 2009, 37, 1022-1026.	1.6	169

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37	Actin Cytoskeleton-Dependent Dynamics of the Human Serotonin1A Receptor Correlates with Receptor Signaling. <i>Biophysical Journal</i> , 2008, 95, 451-463.	0.2	72
38	Effect of sphingomyelinase treatment on ligand binding activity of human serotonin1A receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2022-2025.	1.4	35
39	Real-Time Visualization of Dynamin-Catalyzed Membrane Fission and Vesicle Release. <i>Cell</i> , 2008, 135, 1263-1275.	13.5	251
40	Cholesterol depletion induces dynamic confinement of the G-protein coupled serotonin1A receptor in the plasma membrane of living cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 655-668.	1.4	97
41	Supported lipid bilayer array to study clathrin mediated endocytosis in vitro. , 2007, , .		0
42	Organization and Dynamics of NBD-Labeled Lipids in Membranes Analyzed by Fluorescence Recovery after Photobleaching. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1975-1983.	1.2	54
43	Cholesterol: a potential therapeutic target in Leishmania infection?. <i>Trends in Parasitology</i> , 2007, 23, 49-53.	1.5	77
44	Membrane Organization and Dynamics of the Serotonin 1A Receptor Monitored Using Fluorescence Microscopic Approaches. <i>Frontiers in Neuroscience</i> , 2007, , 41-60.	0.0	1
45	Monitoring the organization and dynamics of bovine hippocampal membranes utilizing differentially localized fluorescent membrane probes. <i>Molecular Membrane Biology</i> , 2006, 23, 430-441.	2.0	10
46	The sterol-binding antibiotic nystatin inhibits entry of non-opsonized Leishmania donovani into macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 661-666.	1.0	34
47	Role of cholesterol in the function and organization of G-protein coupled receptors. <i>Progress in Lipid Research</i> , 2006, 45, 295-333.	5.3	259
48	Effect of cholesterol on lateral diffusion of fluorescent lipid probes in native hippocampal membranes. <i>Chemistry and Physics of Lipids</i> , 2006, 143, 11-21.	1.5	32
49	The human serotonin1A receptor exhibits G-protein-dependent cell surface dynamics. <i>Glycoconjugate Journal</i> , 2006, 24, 25-31.	1.4	21
50	Confocal Fluorescence Recovery After Photobleaching of Green Fluorescent Protein in Solution. <i>Journal of Fluorescence</i> , 2006, 16, 87-94.	1.3	33
51	Ligand Binding and G-protein Coupling of the Serotonin1A Receptor in Cholesterol-enriched Hippocampal Membranes. <i>Bioscience Reports</i> , 2006, 26, 79-87.	1.1	4
52	Prolonged Treatment with Ligands Affects Ligand Binding to the Human Serotonin1A Receptor in Chinese Hamster Ovary Cells. <i>Cellular and Molecular Neurobiology</i> , 2006, 26, 247-257.	1.7	0
53	Membrane Organization and Dynamics of the G-Protein-Coupled Serotonin1A Receptor Monitored Using Fluorescence-Based Approaches. <i>Journal of Fluorescence</i> , 2005, 15, 785-796.	1.3	7
54	The Serotonin1A A Receptor: A Representative Member of the Serotonin Receptor Family. <i>Cellular and Molecular Neurobiology</i> , 2005, 25, 553-580.	1.7	222

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55	The cholesterol-complexing agent digitonin modulates ligand binding of the bovine hippocampal serotonin1A receptor. <i>Molecular Membrane Biology</i> , 2005, 22, 241-249.	2.0	41
56	Cholesterol modulates the antagonist-binding function of hippocampal serotonin1A receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1714, 35-42.	1.4	48
57	Membrane cholesterol oxidation inhibits ligand binding function of hippocampal serotonin1A receptors. <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 422-427.	1.0	43
58	Role of cholesterol in ligand binding and G-protein coupling of serotonin1A receptors solubilized from bovine hippocampus. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 1036-1041.	1.0	45
59	Membrane Sphingolipid-Ergosterol Interactions Are Important Determinants of Multidrug Resistance in <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 1778-1787.	1.4	144
60	Cholesterol is required for <i>Leishmania donovani</i> infection: implications in leishmaniasis. <i>Molecular and Biochemical Parasitology</i> , 2004, 133, 145-152.	0.5	109
61	Ligand Binding Characteristics of the Human Serotonin1A Receptor Heterologously Expressed in CHO Cells. <i>Bioscience Reports</i> , 2004, 24, 101-115.	1.1	40
62	G-Protein-Dependent Cell Surface Dynamics of the Human Serotonin1A Receptor Tagged to Yellow Fluorescent Protein. <i>Biochemistry</i> , 2004, 43, 15852-15862.	1.2	74
63	Exploring detergent insolubility in bovine hippocampal membranes: a critical assessment of the requirement for cholesterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1661, 9-17.	1.4	25
64	Cholesterol modulates ligand binding and G-protein coupling to serotonin1A receptors from bovine hippocampus. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004, 1663, 188-200.	1.4	220
65	The sterol-binding antibiotic nystatin differentially modulates ligand binding of the bovine hippocampal serotonin1A receptor. <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 557-562.	1.0	31