Thomas J Pucadyil

List of Publications by Year
in descending order

65	3,806	136740	143772
papers	citations	32 h-index	57 g-index

70	70	70	4322
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of cholesterol in the function and organization of G-protein coupled receptors. Progress in Lipid Research, 2006, 45, 295-333.	5.3	259
2	Real-Time Visualization of Dynamin-Catalyzed Membrane Fission and Vesicle Release. Cell, 2008, 135, 1263-1275.	13.5	251
3	The Serotonin1A A Receptor: A Representative Member of the Serotonin Receptor Family. Cellular and Molecular Neurobiology, 2005, 25, 553-580.	1.7	222
4	Cholesterol modulates ligand binding and G-protein coupling to serotonin1A receptors from bovine hippocampus. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1663, 188-200.	1.4	220
5	The 2018 biomembrane curvature and remodeling roadmap. Journal Physics D: Applied Physics, 2018, 51, 343001.	1.3	212
6	Function and regulation of the divisome for mitochondrial fission. Nature, 2021, 590, 57-66.	13.7	179
7	Dissecting dynamin's role in clathrin-mediated endocytosis. Biochemical Society Transactions, 2009, 37, 1022-1026.	1.6	169
8	Dynamin-related protein 1 has membrane constricting and severing abilities sufficient for mitochondrial and peroxisomal fission. Nature Communications, 2018, 9, 5239.	5.8	167
9	Conserved Functions of Membrane Active GTPases in Coated Vesicle Formation. Science, 2009, 325, 1217-1220.	6.0	160
10	Membrane Sphingolipid-Ergosterol Interactions Are Important Determinants of Multidrug Resistance in Candida albicans. Antimicrobial Agents and Chemotherapy, 2004, 48, 1778-1787.	1.4	144
11	Chronic Cholesterol Depletion Using Statin Impairs the Function and Dynamics of Human Serotonin_{1A} Receptors. Biochemistry, 2010, 49, 5426-5435.	1.2	132
12	Geometric Catalysis of Membrane Fission Driven by Flexible Dynamin Rings. Science, 2013, 339, 1433-1436.	6.0	123
13	Cholesterol is required for Leishmania donovani infection: implications in leishmaniasis. Molecular and Biochemical Parasitology, 2004, 133, 145-152.	0.5	109
14	Cholesterol depletion induces dynamic confinement of the G-protein coupled serotonin1A receptor in the plasma membrane of living cells. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 655-668.	1.4	97
15	Membrane Insertion of the Pleckstrin Homology Domain Variable Loop 1 Is Critical for Dynamin-catalyzed Vesicle Scission. Molecular Biology of the Cell, 2009, 20, 4630-4639.	0.9	94
16	Differential curvature sensing and generating activities of dynamin isoforms provide opportunities for tissue-specific regulation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E234-42.	3.3	87
17	Cholesterol: a potential therapeutic target in Leishmania infection?. Trends in Parasitology, 2007, 23, 49-53.	1.5	77
18	An Intramolecular Signaling Element that Modulates Dynamin Function In Vitro and In Vivo. Molecular Biology of the Cell, 2009, 20, 3561-3571.	0.9	76

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19	G-Protein-Dependent Cell Surface Dynamics of the Human Serotonin1AReceptor Tagged to Yellow Fluorescent Proteinâ€. Biochemistry, 2004, 43, 15852-15862.	1.2	74
20	Actin Cytoskeleton-Dependent Dynamics of the Human Serotonin1A Receptor Correlates with Receptor Signaling. Biophysical Journal, 2008, 95, 451-463.	0.2	72
21	Organization and Dynamics of NBD-Labeled Lipids in Membranes Analyzed by Fluorescence Recovery after Photobleaching. Journal of Physical Chemistry B, 2007, 111, 1975-1983.	1.2	54
22	Supported Bilayers with Excess Membrane Reservoir: A Template for Reconstituting Membrane Budding and Fission. Biophysical Journal, 2010, 99, 517-525.	0.2	53
23	A high-throughput platform for real-time analysis of membrane fission reactions reveals dynamin function. Nature Cell Biology, 2015, 17, 1588-1596.	4.6	51
24	Cholesterol modulates the antagonist-binding function of hippocampal serotonin1A receptors. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1714, 35-42.	1.4	48
25	Role of cholesterol in ligand binding and G-protein coupling of serotonin1A receptors solubilized from bovine hippocampus. Biochemical and Biophysical Research Communications, 2005, 327, 1036-1041.	1.0	45
26	Analyzing membrane remodeling and fission using supported bilayers with excess membrane reservoir. Nature Protocols, 2013, 8, 213-222.	5.5	45
27	Membrane cholesterol oxidation inhibits ligand binding function of hippocampal serotonin1A receptors. Biochemical and Biophysical Research Communications, 2005, 331, 422-427.	1.0	43
28	The cholesterol-complexing agent digitonin modulates ligand binding of the bovine hippocampal serotonin1Areceptor. Molecular Membrane Biology, 2005, 22, 241-249.	2.0	41
29	Ligand Binding Characteristics of the Human Serotonin1A Receptor Heterologously Expressed in CHO Cells. Bioscience Reports, 2004, 24, 101-115.	1.1	40
30	ATP-dependent membrane remodeling links EHD1 functions to endocytic recycling. Nature Communications, 2018, 9, 5187.	5.8	40
31	Effect of sphingomyelinase treatment on ligand binding activity of human serotonin1A receptors. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2022-2025.	1.4	35
32	The sterol-binding antibiotic nystatin inhibits entry of non-opsonized Leishmania donovani into macrophages. Biochemical and Biophysical Research Communications, 2006, 339, 661-666.	1.0	34
33	Confocal Fluorescence Recovery After Photobleaching of Green Fluorescent Protein in Solution. Journal of Fluorescence, 2006, 16, 87-94.	1.3	33
34	Effect of cholesterol on lateral diffusion of fluorescent lipid probes in native hippocampal membranes. Chemistry and Physics of Lipids, 2006, 143, 11-21.	1.5	32
35	The sterol-binding antibiotic nystatin differentially modulates ligand binding of the bovine hippocampal serotonin1A receptor. Biochemical and Biophysical Research Communications, 2004, 320, 557-562.	1.0	31
36	Exploring detergent insolubility in bovine hippocampal membranes: a critical assessment of the requirement for cholesterol. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1661, 9-17.	1.4	25

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37	Salmonella SipA mimics a cognate SNARE for host Syntaxin8 to promote fusion with early endosomes. Journal of Cell Biology, 2018, 217, 4199-4214.	2.3	25
38	Use of the supported membrane tube assay system for real-time analysis of membrane fission reactions. Nature Protocols, 2017, 12, 390-400.	5.5	24
39	Spatial Control of Epsin-induced Clathrin Assembly by Membrane Curvature. Journal of Biological Chemistry, 2015, 290, 14267-14276.	1.6	23
40	The pleckstrin-homology domain of dynamin is dispensable for membrane constriction and fission. Molecular Biology of the Cell, 2017, 28, 152-160.	0.9	23
41	The human serotonin1A receptor exhibits G-protein-dependent cell surface dynamics. Glycoconjugate Journal, 2006, 24, 25-31.	1.4	21
42	Sphingolipids modulate the function of human serotonin 1A receptors: Insights from sphingolipid-deficient cells. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 598-604.	1.4	18
43	Comparative analysis of adaptor-mediated clathrin assembly reveals general principles for adaptor clustering. Molecular Biology of the Cell, 2016, 27, 3156-3163.	0.9	15
44	Excess area dependent scaling behavior of nano-sized membrane tethers. Physical Biology, 2018, 15, 026002.	0.8	15
45	A Screen for Membrane Fission Catalysts Identifies the ATPase EHD1. Biochemistry, 2019, 58, 65-71.	1.2	11
46	Monitoring the organization and dynamics of bovine hippocampal membranes utilizing differentially localized fluorescent membrane probes. Molecular Membrane Biology, 2006, 23, 430-441.	2.0	10
47	A facile, sensitive and quantitative membraneâ€binding assay for proteins. Traffic, 2020, 21, 297-305.	1.3	10
48	PLiMAP: Proximityâ€Based Labeling of Membraneâ€Associated Proteins. Current Protocols in Protein Science, 2020, 101, e110.	2.8	9
49	Membrane Organization and Dynamics of the G-Protein-Coupled Serotonin1A Receptor Monitored Using Fluorescence-Based Approaches. Journal of Fluorescence, 2005, 15, 785-796.	1.3	7
50	Cellular functions and intrinsic attributes of the <scp>ATP</scp>â€binding Eps15 homology domainâ€containing proteins. Protein Science, 2020, 29, 1321-1330.	3.1	6
51	Dynamic Remodeling of Membranes Catalyzed by Dynamin. Current Topics in Membranes, 2011, 68, 33-47.	0.5	5
52	Ligand Binding and G-protein Coupling of the Serotonin1A Receptor in Cholesterol-enriched Hippocampal Membranes. Bioscience Reports, 2006, 26, 79-87.	1.1	4
53	Understanding membrane traffic from molecular ensemble, energetics, and the cell biology of participant components. Current Opinion in Cell Biology, 2021, 71, iii-vi.	2.6	2
54	Molecular Interplay at the Membrane and Impact on Cellular Physiology. Journal of Membrane Biology, 2021, 254, 239-242.	1.0	1

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55	Membrane Organization and Dynamics of the Serotonin 1A Receptor Monitored Using Fluorescence Microscopic Approaches. Frontiers in Neuroscience, 2007, , 41-60.	0.0	1
56	Metal-Binding Propensity in the Mitochondrial Dynamin-Related Protein 1. Journal of Membrane Biology, 2022, 255, 143-150.	1.0	1
57	Is Drp1 sufficient to catalyze membrane fission?. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	1
58	Prolonged Treatment with Ligands Affects Ligand Binding to the Human Serotonin1A Receptor in Chinese Hamster Ovary Cells. Cellular and Molecular Neurobiology, 2006, 26, 247-257.	1.7	0
59	Supported lipid bilayer array to study clathrin mediated endocytosis in vitro. , 2007, , .		0
60	Thomas Pucadyil: Piecing together membrane fission. Journal of Cell Biology, 2015, 211, 720-721.	2.3	0
61	SMrT Assay for Real-Time Visualization and Analysis of Clathrin Assembly Reactions. Methods in Molecular Biology, 2018, 1847, 161-175.	0.4	0
62	A novel fluorescence microscopic approach to quantitatively analyse protein-induced membrane remodelling. Journal of Biosciences, 2018, 43, 431-435.	0.5	0
63	Membrane Fission: Insights from Reconstituting Organelle Form and Chemistry. Biophysical Journal, 2021, 120, 195a-196a.	0.2	0
64	A novel fluorescence microscopic approach to quantitatively analyse protein-induced membrane remodelling. Journal of Biosciences, 2018, 43, 431-435.	0.5	0
65	Proteinâ€“Protein Interactions on Membrane Surfaces Analysed Using Pull-Downs with Supported Bilayers on Silica Beads. Journal of Membrane Biology, 2022, 255, 591-597.	1.0	0