

Thomas J Pucadyil

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

2,999
citations

30
h-index

54
g-index

70
ext. papers

3,488
ext. citations

7.5
avg, IF

5.43
L-index

#	Paper	IF	Citations
60	Role of cholesterol in the function and organization of G-protein coupled receptors. <i>Progress in Lipid Research</i> , 2006 , 45, 295-333	14.3	224
59	Real-time visualization of dynamin-catalyzed membrane fission and vesicle release. <i>Cell</i> , 2008 , 135, 1263-75	17.5	220
58	Cholesterol modulates ligand binding and G-protein coupling to serotonin(1A) receptors from bovine hippocampus. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2004 , 1663, 188-200	3.8	197
57	The serotonin1A receptor: a representative member of the serotonin receptor family. <i>Cellular and Molecular Neurobiology</i> , 2005 , 25, 553-80	4.6	194
56	Conserved functions of membrane active GTPases in coated vesicle formation. <i>Science</i> , 2009 , 325, 1217-20	39.3	145
55	Dissecting dynamin's role in clathrin-mediated endocytosis. <i>Biochemical Society Transactions</i> , 2009 , 37, 1022-6	5.1	141
54	The 2018 biomembrane curvature and remodeling roadmap. <i>Journal Physics D: Applied Physics</i> , 2018 , 51,	3	133
53	Membrane sphingolipid-ergosterol interactions are important determinants of multidrug resistance in <i>Candida albicans</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 1778-87	5.9	118
52	Chronic cholesterol depletion using statin impairs the function and dynamics of human serotonin(1A) receptors. <i>Biochemistry</i> , 2010 , 49, 5426-35	3.2	110
51	Geometric catalysis of membrane fission driven by flexible dynamin rings. <i>Science</i> , 2013 , 339, 1433-6	33.3	102
50	Cholesterol is required for <i>Leishmania donovani</i> infection: implications in leishmaniasis. <i>Molecular and Biochemical Parasitology</i> , 2004 , 133, 145-52	1.9	94
49	Dynamin-related protein 1 has membrane constricting and severing abilities sufficient for mitochondrial and peroxisomal fission. <i>Nature Communications</i> , 2018 , 9, 5239	17.4	86
48	Cholesterol depletion induces dynamic confinement of the G-protein coupled serotonin(1A) receptor in the plasma membrane of living cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 655-68	3.8	81
47	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, 4630-9	3.5	80
46	Cholesterol: a potential therapeutic target in <i>Leishmania</i> infection?. <i>Trends in Parasitology</i> , 2007 , 23, 49-53	6.4	71
45	G-protein-dependent cell surface dynamics of the human serotonin1A receptor tagged to yellow fluorescent protein. <i>Biochemistry</i> , 2004 , 43, 15852-62	3.2	69
44	An intramolecular signaling element that modulates dynamin function in vitro and in vivo. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3561-71	3.5	67

43	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	11.5	66
42	Actin cytoskeleton-dependent dynamics of the human serotonin1A receptor correlates with receptor signaling. <i>Biophysical Journal</i> , 2008 , 95, 451-63	2.9	64
41	Organization and dynamics of NBD-labeled lipids in membranes analyzed by fluorescence recovery after photobleaching. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 1975-83	3.4	46
40	Cholesterol modulates the antagonist-binding function of hippocampal serotonin1A receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1714, 35-42	3.8	45
39	Function and regulation of the divisome for mitochondrial fission. <i>Nature</i> , 2021 , 590, 57-66	50.4	42
38	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, 1036-41	3.4	41
37	Supported bilayers with excess membrane reservoir: a template for reconstituting membrane budding and fission. <i>Biophysical Journal</i> , 2010 , 99, 517-25	2.9	38
36	Membrane cholesterol oxidation inhibits ligand binding function of hippocampal serotonin(1A) receptors. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 331, 422-7	3.4	38
35	The cholesterol-complexing agent digitonin modulates ligand binding of the bovine hippocampal serotonin 1A receptor. <i>Molecular Membrane Biology</i> , 2005 , 22, 241-9	3.4	38
34	A high-throughput platform for real-time analysis of membrane fission reactions reveals dynamin function. <i>Nature Cell Biology</i> , 2015 , 17, 1588-96	23.4	36
33	Ligand binding characteristics of the human serotonin1A receptor heterologously expressed in CHO cells. <i>Bioscience Reports</i> , 2004 , 24, 101-15	4.1	36
32	Analyzing membrane remodeling and fission using supported bilayers with excess membrane reservoir. <i>Nature Protocols</i> , 2013 , 8, 213-22	18.8	32
31	The sterol-binding antibiotic nystatin inhibits entry of non-opsonized <i>Leishmania donovani</i> into macrophages. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 339, 661-6	3.4	31
30	Effect of sphingomyelinase treatment on ligand binding activity of human serotonin1A receptors. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 2022-5	3.8	30
29	The sterol-binding antibiotic nystatin differentially modulates ligand binding of the bovine hippocampal serotonin1A receptor. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 557-62	3.4	30
28	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	3.7	29
27	Confocal fluorescence recovery after photobleaching of green fluorescent protein in solution. <i>Journal of Fluorescence</i> , 2006 , 16, 87-94	2.4	27
26	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	3.8	25

25	ATP-dependent membrane remodeling links EHD1 functions to endocytic recycling. <i>Nature Communications</i> , 2018 , 9, 5187	17.4	25
24	Spatial Control of Epsin-induced Clathrin Assembly by Membrane Curvature. <i>Journal of Biological Chemistry</i> , 2015 , 290, 14267-76	5.4	20
23	The human serotonin1A receptor exhibits G-protein-dependent cell surface dynamics. <i>Glycoconjugate Journal</i> , 2007 , 24, 25-31	3	18
22	Use of the supported membrane tube assay system for real-time analysis of membrane fission reactions. <i>Nature Protocols</i> , 2017 , 12, 390-400	18.8	16
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	3.5	14
20	Sphingolipids modulate the function of human serotonin receptors: Insights from sphingolipid-deficient cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 598-604	3.8	13
19	SipA mimics a cognate SNARE for host Syntaxin8 to promote fusion with early endosomes. <i>Journal of Cell Biology</i> , 2018 , 217, 4199-4214	7.3	11
18	Comparative analysis of adaptor-mediated clathrin assembly reveals general principles for adaptor clustering. <i>Molecular Biology of the Cell</i> , 2016 , 27, 3156-3163	3.5	10
17	Monitoring the organization and dynamics of bovine hippocampal membranes utilizing differentially localized fluorescent membrane probes. <i>Molecular Membrane Biology</i> , 2006 , 23, 430-41	3.4	8
16	A Screen for Membrane Fission Catalysts Identifies the ATPase EHD1. <i>Biochemistry</i> , 2019 , 58, 65-71	3.2	8
15	Excess area dependent scaling behavior of nano-sized membrane tethers. <i>Physical Biology</i> , 2018 , 15, 026002	3	8
14	Membrane organization and dynamics of the G-protein-coupled serotonin1A receptor monitored using fluorescence-based approaches. <i>Journal of Fluorescence</i> , 2005 , 15, 785-96	2.4	6
13	A facile, sensitive and quantitative membrane-binding assay for proteins. <i>Traffic</i> , 2020 , 21, 297-305	5.7	4
12	Dynamic remodeling of membranes catalyzed by dynamin. <i>Current Topics in Membranes</i> , 2011 , 68, 33-47	2.2	3
11	Ligand binding and G-protein coupling of the serotonin1A receptor in cholesterol-enriched hippocampal membranes. <i>Bioscience Reports</i> , 2006 , 26, 79-87	4.1	3
10	Cellular functions and intrinsic attributes of the ATP-binding Eps15 homology domain-containing proteins. <i>Protein Science</i> , 2020 , 29, 1321-1330	6.3	2
9	PLiMAP: Proximity-Based Labeling of Membrane-Associated Proteins. <i>Current Protocols in Protein Science</i> , 2020 , 101, e110	3.1	1
8	Membrane Organization and Dynamics of the Serotonin 1A Receptor Monitored Using Fluorescence Microscopic Approaches. <i>Frontiers in Neuroscience</i> , 2007 , 41-60		1

7	Metal-Binding Propensity in the Mitochondrial Dynamin-Related Protein 1.. <i>Journal of Membrane Biology</i> , 2022 , 1	2.3	0
6	SMrT Assay for Real-Time Visualization and Analysis of Clathrin Assembly Reactions. <i>Methods in Molecular Biology</i> , 2018 , 1847, 161-175	1.4	
5	A novel fluorescence microscopic approach to quantitatively analyse protein-induced membrane remodelling. <i>Journal of Biosciences</i> , 2018 , 43, 431-435	2.3	
4	Thomas Pucadyil: Piecing together membrane fission. <i>Journal of Cell Biology</i> , 2015 , 211, 720-1	7.3	
3	Prolonged treatment with ligands affects ligand binding to the human serotonin(1A) receptor in Chinese hamster ovary cells. <i>Cellular and Molecular Neurobiology</i> , 2006 , 26, 247-57	4.6	
2	A novel fluorescence microscopic approach to quantitatively analyse protein-induced membrane remodelling. <i>Journal of Biosciences</i> , 2018 , 43, 431-435	2.3	
1	Protein-Protein Interactions on Membrane Surfaces Analysed Using Pull-Downs with Supported Bilayers on Silica Beads.. <i>Journal of Membrane Biology</i> , 2022 , 1	2.3	