

Gilbert Di Paolo

List of Publications by Year in descending order

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94
papers

17,846
citations

17440

63
h-index

42399

92
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95
all docs

95
docs citations

95
times ranked

26272
citing authors

#	ARTICLE	IF	CITATIONS
1	Loss of TREM2 rescues hyperactivation of microglia, but not lysosomal deficits and neurotoxicity in models of progranulin deficiency. <i>EMBO Journal</i> , 2022, 41, e109108.	7.8	38
2	Diet-dependent regulation of TGF β 2 impairs reparative innate immune responses after demyelination. <i>Nature Metabolism</i> , 2021, 3, 211-227.	11.9	41
3	Microglia clean up toxic lipids in multiple sclerosis. <i>Nature Neuroscience</i> , 2021, 24, 451-452.	14.8	4
4	Rescue of a lysosomal storage disorder caused by Grn loss of function with a brain penetrant progranulin biologic. <i>Cell</i> , 2021, 184, 4651-4668.e25.	28.9	97
5	PLD1 and PLD2 differentially regulate the balance of macrophage polarization in inflammation and tissue injury. <i>Journal of Cellular Physiology</i> , 2021, 236, 5193-5211.	4.1	16
6	TREM2 Regulates Microglial Cholesterol Metabolism upon Chronic Phagocytic Challenge. <i>Neuron</i> , 2020, 105, 837-854.e9.	8.1	391
7	Emerging Microglia Biology Defines Novel Therapeutic Approaches for Alzheimer's Disease. <i>Neuron</i> , 2020, 108, 801-821.	8.1	132
8	Brain delivery and activity of a lysosomal enzyme using a blood-brain barrier transport vehicle in mice. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	121
9	Alzheimer's-associated PLC β 2 is a signaling node required for both TREM2 function and the inflammatory response in human microglia. <i>Nature Neuroscience</i> , 2020, 23, 927-938.	14.8	142
10	Enhancing protective microglial activities with a dual function <sc>TREM</sc> 2 antibody to the stalk region. <i>EMBO Molecular Medicine</i> , 2020, 12, e11227.	6.9	155
11	Phosphatidic acid generated by PLD2 promotes the plasma membrane recruitment of IQGAP1 and neointima formation. <i>FASEB Journal</i> , 2019, 33, 6713-6725.	0.5	12
12	Cardiac recovery via extended cell-free delivery of extracellular vesicles secreted by cardiomyocytes derived from induced pluripotent stem cells. <i>Nature Biomedical Engineering</i> , 2018, 2, 293-303.	22.5	249
13	Oxidized LDL phagocytosis during foam cell formation in atherosclerotic plaques relies on a PLD2-CD36 functional interdependence. <i>Journal of Leukocyte Biology</i> , 2018, 103, 867-883.	3.3	36
14	Neuronal lysosomal dysfunction releases exosomes harboring APP C-terminal fragments and unique lipid signatures. <i>Nature Communications</i> , 2018, 9, 291.	12.8	165
15	Endoplasmic reticulum-plasma membrane contact sites integrate sterol and phospholipid regulation. <i>PLoS Biology</i> , 2018, 16, e2003864.	5.6	132
16	Endolysosomal dysfunction and exosome secretion: implications for neurodegenerative disorders. <i>Cell Stress</i> , 2018, 2, 115-118.	3.2	22
17	Disruption of amyloid precursor protein ubiquitination selectively increases amyloid β (A β) 40 levels via presenilin 2-mediated cleavage. <i>Journal of Biological Chemistry</i> , 2017, 292, 19873-19889.	3.4	20
18	Increased localization of <sc>APP</sc>-C99 in mitochondria-associated <sc>ER</sc> membranes causes mitochondrial dysfunction in Alzheimer disease. <i>EMBO Journal</i> , 2017, 36, 3356-3371.	7.8	164

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19	Metabolic activity induces membrane phase separation in endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13394-13399.	7.1	118
20	Elevated GM3 plasma concentration in idiopathic Parkinson's disease: A lipidomic analysis. PLoS ONE, 2017, 12, e0172348.	2.5	69
21	TTC39B deficiency stabilizes LXR reducing both atherosclerosis and steatohepatitis. Nature, 2016, 535, 303-307.	27.8	72
22	Inhibition of apolipoprotein B synthesis stimulates endoplasmic reticulum autophagy that prevents steatosis. Journal of Clinical Investigation, 2016, 126, 3852-3867.	8.2	38
23	PIK3C2B inhibition improves function and prolongs survival in myotubular myopathy animal models. Journal of Clinical Investigation, 2016, 126, 3613-3625.	8.2	80
24	Gene-Wise Association of Variants in Four Lysosomal Storage Disorder Genes in Neuropathologically Confirmed Lewy Body Disease. PLoS ONE, 2015, 10, e0125204.	2.5	52
25	Role for Lipid Droplet Biogenesis and Microlipophagy in Adaptation to Lipid Imbalance in Yeast. Developmental Cell, 2015, 35, 584-599.	7.0	175
26	Targeting phospholipase D1 attenuates intestinal tumorigenesis by controlling β -catenin signaling in cancer-initiating cells. Journal of Experimental Medicine, 2015, 212, 1219-1237.	8.5	47
27	β -Synuclein-Independent Histopathological and Motor Deficits in Mice Lacking the Endolysosomal Parkinsonism Protein Atp13a2. Journal of Neuroscience, 2015, 35, 5724-5742.	3.6	87
28	Profiling the Essential Nature of Lipid Metabolism in Asexual Blood and Gametocyte Stages of Plasmodium falciparum. Cell Host and Microbe, 2015, 18, 371-381.	11.0	144
29	Mutations in the Cholesterol Transporter Gene ABCA5 Are Associated with Excessive Hair Overgrowth. PLoS Genetics, 2014, 10, e1004333.	3.5	46
30	Screening Assay for Small-Molecule Inhibitors of Synaptojanin 1, a Synaptic Phosphoinositide Phosphatase. Journal of Biomolecular Screening, 2014, 19, 585-594.	2.6	5
31	Pivotal Role of Phospholipase D1 in Tumor Necrosis Factor- α -Mediated Inflammation and Scar Formation after Myocardial Ischemia and Reperfusion in Mice. American Journal of Pathology, 2014, 184, 2450-2464.	3.8	36
32	Phosphatidylinositol-3-phosphate regulates sorting and processing of amyloid precursor protein through the endosomal system. Nature Communications, 2013, 4, 2250.	12.8	184
33	When Schwann Cells Conspire with Mitochondria, Neighboring Axons Are under Attack by Glia-Derived Neurotoxic Lipids. Neuron, 2013, 77, 801-803.	8.1	3
34	The Sac1 Domain of <i>SYNJ</i> 1 Identified Mutated in a Family with Early-Onset Progressive Parkinsonism with Generalized Seizures. Human Mutation, 2013, 34, 1200-1207.	2.5	302
35	The Role of Lipids in the Control of Autophagy. Current Biology, 2013, 23, R33-R45.	3.9	239
36	Small Misfolded Tau Species Are Internalized via Bulk Endocytosis and Anterogradely and Retrogradely Transported in Neurons. Journal of Biological Chemistry, 2013, 288, 1856-1870.	3.4	436

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37	PI5P migrates out of the PIP shadow. <i>EMBO Reports</i> , 2013, 14, 214-215.	4.5	4
38	RAB7L1 Interacts with LRRK2 to Modify Intraneuronal Protein Sorting and Parkinson's Disease Risk. <i>Neuron</i> , 2013, 77, 425-439.	8.1	500
39	Modulation of Lipid Kinase PI4KIII \pm Activity and Lipid Raft Association of Presenilin 1 Underlies β -Secretase Inhibition by Ginsenoside (20S)-Rg3. <i>Journal of Biological Chemistry</i> , 2013, 288, 20868-20882.	3.4	34
40	Deficiencies of the Lipid-Signaling Enzymes Phospholipase D1 and D2 Alter Cytoskeletal Organization, Macrophage Phagocytosis, and Cytokine-Stimulated Neutrophil Recruitment. <i>PLoS ONE</i> , 2013, 8, e55325.	2.5	57
41	Regulation of Mammalian Autophagy by Class II and III PI 3-Kinases through PI3P Synthesis. <i>PLoS ONE</i> , 2013, 8, e76405.	2.5	160
42	Acute Manipulation of Phosphoinositide Levels in Cells. <i>Methods in Cell Biology</i> , 2012, 108, 187-207.	1.1	4
43	Bezafibrate administration improves behavioral deficits and tau pathology in P301S mice. <i>Human Molecular Genetics</i> , 2012, 21, 5091-5105.	2.9	77
44	Inhibitory effect of dietary lipids on chaperone-mediated autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E705-14.	7.1	181
45	Key Roles for the Lipid Signaling Enzyme Phospholipase D1 in the Tumor Microenvironment During Tumor Angiogenesis and Metastasis. <i>Science Signaling</i> , 2012, 5, ra79.	3.6	120
46	Knockout punch: cardiolipin oxidation in trauma. <i>Nature Neuroscience</i> , 2012, 15, 1325-1327.	14.8	9
47	Phosphatidic acid regulation of PIPKI is critical for actin cytoskeletal reorganization. <i>Journal of Lipid Research</i> , 2012, 53, 2598-2609.	4.2	43
48	Comparative Lipidomic Analysis of Mouse and Human Brain with Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2012, 287, 2678-2688.	3.4	457
49	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
50	Reduction of Synaptojanin 1 Ameliorates Synaptic and Behavioral Impairments in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2012, 32, 15271-15276.	3.6	69
51	Trisomy for Synaptojanin1 in Down syndrome is functionally linked to the enlargement of early endosomes. <i>Human Molecular Genetics</i> , 2012, 21, 3156-3172.	2.9	92
52	A novel role for phospholipase D as an endogenous negative regulator of platelet sensitivity. <i>Cellular Signalling</i> , 2012, 24, 1743-1752.	3.6	12
53	The location and trafficking routes of the neuronal retromer and its role in amyloid precursor protein transport. <i>Neurobiology of Disease</i> , 2012, 47, 126-134.	4.4	102
54	Synaptojanin 1-Mediated PI(4,5)P2 Hydrolysis Is Modulated by Membrane Curvature and Facilitates Membrane Fission. <i>Developmental Cell</i> , 2011, 20, 206-218.	7.0	154

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55	Linking lipids to Alzheimer's disease: cholesterol and beyond. <i>Nature Reviews Neuroscience</i> , 2011, 12, 284-296.	10.2	751
56	Cholesterol modulates ion channels via downregulation of phosphatidylinositol 4,5-bisphosphate. <i>Journal of Neurochemistry</i> , 2010, 112, 1286-1294.	3.9	38
57	Phospholipase D2 Ablation Ameliorates Alzheimer's Disease-Linked Synaptic Dysfunction and Cognitive Deficits. <i>Journal of Neuroscience</i> , 2010, 30, 16419-16428.	3.6	155
58	The Connecdenn DENN Domain: A GEF for Rab35 Mediating Cargo-Specific Exit from Early Endosomes. <i>Molecular Cell</i> , 2010, 37, 370-382.	9.7	180
59	Essential and unique roles of PIP5K- β and γ in Fc γ receptor-mediated phagocytosis. <i>Journal of Cell Biology</i> , 2009, 184, 281-296.	5.2	81
60	A lipid kinase controls the maintenance of dendritic spines. <i>EMBO Journal</i> , 2009, 28, 999-1000.	7.8	6
61	Essential and unique roles of PIP5K- β and γ in Fc γ receptor-mediated phagocytosis. <i>Journal of Experimental Medicine</i> , 2009, 206, i2-i2.	8.5	0
62	Oligomeric amyloid- β peptide disrupts phosphatidylinositol-4,5-bisphosphate metabolism. <i>Nature Neuroscience</i> , 2008, 11, 547-554.	14.8	176
63	Synaptojanin 1-linked phosphoinositide dyshomeostasis and cognitive deficits in mouse models of Down's syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9415-9420.	7.1	157
64	SNX9 regulates tubular invagination of the plasma membrane through interaction with actin cytoskeleton and dynamin 2. <i>Journal of Cell Science</i> , 2008, 121, 1252-1263.	2.0	88
65	The Dual Phosphatase Activity of Synaptojanin1 Is Required for Both Efficient Synaptic Vesicle Endocytosis and Reavailability at Nerve Terminals. <i>Neuron</i> , 2007, 56, 1004-1018.	8.1	172
66	Lipids and lipid modifications in the regulation of membrane traffic. <i>Current Opinion in Cell Biology</i> , 2007, 19, 426-435.	5.4	96
67	Phosphoinositides in cell regulation and membrane dynamics. <i>Nature</i> , 2006, 443, 651-657.	27.8	2,407
68	Regulation of transferrin recycling kinetics by PtdIns[4,5]P ₂ availability. <i>FASEB Journal</i> , 2006, 20, 2399-2401.	0.5	40
69	Presenilin mutations linked to familial Alzheimer's disease cause an imbalance in phosphatidylinositol 4,5-bisphosphate metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19524-19529.	7.1	127
70	Phosphatidylinositol phosphate kinase type I α regulates dynamics of large dense-core vesicle fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5204-5209.	7.1	96
71	Regulation of the interaction between PIPK β and talin by proline-directed protein kinases. <i>Journal of Cell Biology</i> , 2005, 168, 789-799.	5.2	106
72	Competition for Talin Results in Trans-dominant Inhibition of Integrin Activation. <i>Journal of Biological Chemistry</i> , 2004, 279, 28889-28895.	3.4	95

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73	A role for talin in presynaptic function. <i>Journal of Cell Biology</i> , 2004, 167, 43-50.	5.2	78
74	The stimulatory action of amphiphysin on dynamin function is dependent on lipid bilayer curvature. <i>EMBO Journal</i> , 2004, 23, 3483-3491.	7.8	114
75	Impaired PtdIns(4,5)P ₂ synthesis in nerve terminals produces defects in synaptic vesicle trafficking. <i>Nature</i> , 2004, 431, 415-422.	27.8	341
76	Phosphoinositide profiling in complex lipid mixtures using electrospray ionization mass spectrometry. <i>Nature Biotechnology</i> , 2003, 21, 813-817.	17.5	226
77	Phosphatidylinositol Phosphate Kinase Type 1 β and 1 γ -Integrin Cytoplasmic Domain Bind to the Same Region in the Talin FERM Domain. <i>Journal of Biological Chemistry</i> , 2003, 278, 31202-31209.	3.4	88
78	Does clathrin pull the fission trigger?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4981-4983.	7.1	10
79	Delayed reentry of recycling vesicles into the fusion-competent synaptic vesicle pool in synaptojanin 1 knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 17143-17148.	7.1	130
80	Decreased Synaptic Vesicle Recycling Efficiency and Cognitive Deficits in Amphiphysin 1 Knockout Mice. <i>Neuron</i> , 2002, 33, 789-804.	8.1	208
81	Recruitment and regulation of phosphatidylinositol phosphate kinase type 1 β by the FERM domain of talin. <i>Nature</i> , 2002, 420, 85-89.	27.8	420
82	PIP Kinase 1 β Is the Major PI(4,5)P ₂ Synthesizing Enzyme at the Synapse. <i>Neuron</i> , 2001, 32, 79-88.	8.1	222
83	Synaptojanin 1 Contributes to Maintaining the Stability of GABAergic Transmission in Primary Cultures of Cortical Neurons. <i>Journal of Neuroscience</i> , 2001, 21, 9101-9111.	3.6	48
84	Localization and targeting of SCG10 to the trans-Golgi apparatus and growth cone vesicles. <i>European Journal of Neuroscience</i> , 2000, 12, 2224-2234.	2.6	73
85	Direct interaction of the 170 kDa isoform of synaptojanin 1 with clathrin and with the clathrin adaptor AP-2. <i>Current Biology</i> , 2000, 10, 471-474.	3.9	156
86	Fission and Uncoating of Synaptic Clathrin-Coated Vesicles Are Perturbed by Disruption of Interactions with the SH3 Domain of Endophilin. <i>Neuron</i> , 2000, 27, 301-312.	8.1	276
87	Endophilin/SH3p4 Is Required for the Transition from Early to Late Stages in Clathrin-Mediated Synaptic Vesicle Endocytosis. <i>Neuron</i> , 1999, 24, 143-154.	8.1	302
88	Essential Role of Phosphoinositide Metabolism in Synaptic Vesicle Recycling. <i>Cell</i> , 1999, 99, 179-188.	28.9	760
89	Identification of in Vitro Phosphorylation Sites in the Growth Cone Protein SCG10. <i>Journal of Biological Chemistry</i> , 1998, 273, 8439-8446.	3.4	84
90	Targeting of SCG10 to the Area of the Golgi Complex Is Mediated by Its NH ₂ -terminal Region. <i>Journal of Biological Chemistry</i> , 1997, 272, 5175-5182.	3.4	90

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91	Expression, Purification, and Characterization of a Highly Soluble N-terminal-Truncated Form of the Neuron-Specific Membrane-Associated Phosphoprotein SCG10. Protein Expression and Purification, 1997, 9, 295-300.	1.3	14
92	Purification, Characterization, and in Vitro Phosphorylation of the Neuron-Specific Membrane-Associated Protein SCG10. Protein Expression and Purification, 1997, 9, 363-371.	1.3	27
93	Phosphorylation regulates the microtubule-destabilizing activity of stathmin and its interaction with tubulin. FEBS Letters, 1997, 416, 149-152.	2.8	83
94	Differential distribution of stathmin and SCG10 in developing neurons in culture. , 1997, 50, 1000-1009.		57