

# 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  
g-index

95  
all docs

95  
docs citations

95  
times ranked

26272  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
2	Phosphoinositides in cell regulation and membrane dynamics. <i>Nature</i> , 2006, 443, 651-657.	27.8	2,407
3	Essential Role of Phosphoinositide Metabolism in Synaptic Vesicle Recycling. <i>Cell</i> , 1999, 99, 179-188.	28.9	760
4	Linking lipids to Alzheimer's disease: cholesterol and beyond. <i>Nature Reviews Neuroscience</i> , 2011, 12, 284-296.	10.2	751
5	RAB7L1 Interacts with LRRK2 to Modify Intraneuronal Protein Sorting and Parkinson's Disease Risk. <i>Neuron</i> , 2013, 77, 425-439.	8.1	500
6	Comparative Lipidomic Analysis of Mouse and Human Brain with Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2012, 287, 2678-2688.	3.4	457
7	Small Misfolded Tau Species Are Internalized via Bulk Endocytosis and Anterogradely and Retrogradely Transported in Neurons. <i>Journal of Biological Chemistry</i> , 2013, 288, 1856-1870.	3.4	436
8	Recruitment and regulation of phosphatidylinositol phosphate kinase type 1 $\beta$ by the FERM domain of talin. <i>Nature</i> , 2002, 420, 85-89.	27.8	420
9	TREM2 Regulates Microglial Cholesterol Metabolism upon Chronic Phagocytic Challenge. <i>Neuron</i> , 2020, 105, 837-854.e9.	8.1	391
10	Impaired PtdIns(4,5)P <sub>2</sub> synthesis in nerve terminals produces defects in synaptic vesicle trafficking. <i>Nature</i> , 2004, 431, 415-422.	27.8	341
11	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
12	The Sac1 Domain of <i>SYNJ1</i> Identified Mutated in a Family with Early-Onset Progressive Parkinsonism with Generalized Seizures. <i>Human Mutation</i> , 2013, 34, 1200-1207.	2.5	302
13	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
14	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
15	The Role of Lipids in the Control of Autophagy. <i>Current Biology</i> , 2013, 23, R33-R45.	3.9	239
16	Phosphoinositide profiling in complex lipid mixtures using electrospray ionization mass spectrometry. <i>Nature Biotechnology</i> , 2003, 21, 813-817.	17.5	226
17	PIP Kinase 1 $\beta$ Is the Major PI(4,5)P <sub>2</sub> Synthesizing Enzyme at the Synapse. <i>Neuron</i> , 2001, 32, 79-88.	8.1	222
18	Decreased Synaptic Vesicle Recycling Efficiency and Cognitive Deficits in Amphiphysin 1 Knockout Mice. <i>Neuron</i> , 2002, 33, 789-804.	8.1	208

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19	Phosphatidylinositol-3-phosphate regulates sorting and processing of amyloid precursor protein through the endosomal system. <i>Nature Communications</i> , 2013, 4, 2250.	12.8	184
20	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
21	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
22	Oligomeric amyloid- $\beta$ peptide disrupts phosphatidylinositol-4,5-bisphosphate metabolism. <i>Nature Neuroscience</i> , 2008, 11, 547-554.	14.8	176
23	Role for Lipid Droplet Biogenesis and Microlipophagy in Adaptation to Lipid Imbalance in Yeast. <i>Developmental Cell</i> , 2015, 35, 584-599.	7.0	175
24	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
25	Neuronal lysosomal dysfunction releases exosomes harboring APP C-terminal fragments and unique lipid signatures. <i>Nature Communications</i> , 2018, 9, 291.	12.8	165
26	Increased localization of APP <sup>C99</sup> in mitochondria-associated ER membranes causes mitochondrial dysfunction in Alzheimer disease. <i>EMBO Journal</i> , 2017, 36, 3356-3371.	7.8	164
27	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
28	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
29	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
30	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
31	Enhancing protective microglial activities with a dual function TREM2 antibody to the stalk region. <i>EMBO Molecular Medicine</i> , 2020, 12, e11227.	6.9	155
32	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
33	Profiling the Essential Nature of Lipid Metabolism in Asexual Blood and Gametocyte Stages of <i>Plasmodium falciparum</i> . <i>Cell Host and Microbe</i> , 2015, 18, 371-381.	11.0	144
34	Alzheimer's-associated PLC $\beta$ 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
35	Endoplasmic reticulum-plasma membrane contact sites integrate sterol and phospholipid regulation. <i>PLoS Biology</i> , 2018, 16, e2003864.	5.6	132
36	Emerging Microglia Biology Defines Novel Therapeutic Approaches for Alzheimer's Disease. <i>Neuron</i> , 2020, 108, 801-821.	8.1	132

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37	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
38	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
39	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
40	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
41	Metabolic activity induces membrane phase separation in endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13394-13399.	7.1	118
42	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
43	Regulation of the interaction between PIPK1 $\beta^3$ and talin by proline-directed protein kinases. <i>Journal of Cell Biology</i> , 2005, 168, 789-799.	5.2	106
44	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
45	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
46	Phosphatidylinositol phosphate kinase type I $\alpha$ 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
47	Lipids and lipid modifications in the regulation of membrane traffic. <i>Current Opinion in Cell Biology</i> , 2007, 19, 426-435.	5.4	96
48	Competition for Talin Results in Trans-dominant Inhibition of Integrin Activation. <i>Journal of Biological Chemistry</i> , 2004, 279, 28889-28895.	3.4	95
49	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
50	Targeting of SCG10 to the Area of the Golgi Complex Is Mediated by Its NH2-terminal Region. <i>Journal of Biological Chemistry</i> , 1997, 272, 5175-5182.	3.4	90
51	Phosphatidylinositol Phosphate Kinase Type I $\beta^3$ and I $\beta^1$ -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
52	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
53	I $\alpha$ -Synuclein-Independent Histopathological and Motor Deficits in Mice Lacking the Endolysosomal Parkinsonism Protein Atp13a2. <i>Journal of Neuroscience</i> , 2015, 35, 5724-5742.	3.6	87
54	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

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55	Phosphorylation regulates the microtubule-destabilizing activity of stathmin and its interaction with tubulin. <i>FEBS Letters</i> , 1997, 416, 149-152.	2.8	83
56	Essential and unique roles of PIP5K- $\beta$ and $\beta$ in Fc $\beta$ receptor-mediated phagocytosis. <i>Journal of Cell Biology</i> , 2009, 184, 281-296.	5.2	81
57	PIK3C2B inhibition improves function and prolongs survival in myotubular myopathy animal models. <i>Journal of Clinical Investigation</i> , 2016, 126, 3613-3625.	8.2	80
58	A role for talin in presynaptic function. <i>Journal of Cell Biology</i> , 2004, 167, 43-50.	5.2	78
59	Bezafibrate administration improves behavioral deficits and tau pathology in P301S mice. <i>Human Molecular Genetics</i> , 2012, 21, 5091-5105.	2.9	77
60	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
61	TTC39B deficiency stabilizes LXR reducing both atherosclerosis and steatohepatitis. <i>Nature</i> , 2016, 535, 303-307.	27.8	72
62	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
63	Elevated GM3 plasma concentration in idiopathic Parkinson's disease: A lipidomic analysis. <i>PLoS ONE</i> , 2017, 12, e0172348.	2.5	69
64	Differential distribution of stathmin and SCG10 in developing neurons in culture. , 1997, 50, 1000-1009.		57
65	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
66	Gene-Wise Association of Variants in Four Lysosomal Storage Disorder Genes in Neuropathologically Confirmed Lewy Body Disease. <i>PLoS ONE</i> , 2015, 10, e0125204.	2.5	52
67	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
68	Targeting phospholipase D1 attenuates intestinal tumorigenesis by controlling $\beta$ -catenin signaling in cancer-initiating cells. <i>Journal of Experimental Medicine</i> , 2015, 212, 1219-1237.	8.5	47
69	Mutations in the Cholesterol Transporter Gene ABCA5 Are Associated with Excessive Hair Overgrowth. <i>PLoS Genetics</i> , 2014, 10, e1004333.	3.5	46
70	Phosphatidic acid regulation of PIPKI is critical for actin cytoskeletal reorganization. <i>Journal of Lipid Research</i> , 2012, 53, 2598-2609.	4.2	43
71	Diet-dependent regulation of TGF $\beta$ 2 impairs reparative innate immune responses after demyelination. <i>Nature Metabolism</i> , 2021, 3, 211-227.	11.9	41
72	Regulation of transferrin recycling kinetics by PtdIns[4,5]P2 availability. <i>FASEB Journal</i> , 2006, 20, 2399-2401.	0.5	40

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73	Cholesterol modulates ion channels via downregulation of phosphatidylinositol 4,5-bisphosphate. <i>Journal of Neurochemistry</i> , 2010, 112, 1286-1294.	3.9	38
74	Inhibition of apolipoprotein B synthesis stimulates endoplasmic reticulum autophagy that prevents steatosis. <i>Journal of Clinical Investigation</i> , 2016, 126, 3852-3867.	8.2	38
75	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
76	Pivotal Role of Phospholipase D1 in Tumor Necrosis Factor- $\alpha$ -Mediated Inflammation and Scar Formation after Myocardial Ischemia and Reperfusion in Mice. <i>American Journal of Pathology</i> , 2014, 184, 2450-2464.	3.8	36
77	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
78	Modulation of Lipid Kinase PI4KIII $\alpha$ Activity and Lipid Raft Association of Presenilin 1 Underlies $\beta$ -Secretase Inhibition by Ginsenoside (20S)-Rg3. <i>Journal of Biological Chemistry</i> , 2013, 288, 20868-20882.	3.4	34
79	Purification, Characterization, and in Vitro Phosphorylation of the Neuron-Specific Membrane-Associated Protein SCG10. <i>Protein Expression and Purification</i> , 1997, 9, 363-371.	1.3	27
80	Endolysosomal dysfunction and exosome secretion: implications for neurodegenerative disorders. <i>Cell Stress</i> , 2018, 2, 115-118.	3.2	22
81	Disruption of amyloid precursor protein ubiquitination selectively increases amyloid $\beta$ ( $A\beta$ ) 40 levels via presenilin 2-mediated cleavage. <i>Journal of Biological Chemistry</i> , 2017, 292, 19873-19889.	3.4	20
82	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
83	Expression, Purification, and Characterization of a Highly Soluble N-terminal-Truncated Form of the Neuron-Specific Membrane-Associated Phosphoprotein SCG10. <i>Protein Expression and Purification</i> , 1997, 9, 295-300.	1.3	14
84	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
85	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
86	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
87	Knockout punch: cardiolipin oxidation in trauma. <i>Nature Neuroscience</i> , 2012, 15, 1325-1327.	14.8	9
88	A lipid kinase controls the maintenance of dendritic spines. <i>EMBO Journal</i> , 2009, 28, 999-1000.	7.8	6
89	Screening Assay for Small-Molecule Inhibitors of Synaptojanin 1, a Synaptic Phosphoinositide Phosphatase. <i>Journal of Biomolecular Screening</i> , 2014, 19, 585-594.	2.6	5
90	Acute Manipulation of Phosphoinositide Levels in Cells. <i>Methods in Cell Biology</i> , 2012, 108, 187-207.	1.1	4

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91	PI5P migrates out of the PIP shadow. EMBO Reports, 2013, 14, 214-215.	4.5	4
92	Microglia clean up toxic lipids in multiple sclerosis. Nature Neuroscience, 2021, 24, 451-452.	14.8	4
93	When Schwann Cells Conspire with Mitochondria, Neighboring Axons Are under Attack by Glia-Derived Neurotoxic Lipids. Neuron, 2013, 77, 801-803.	8.1	3
94	Essential and unique roles of PIP5K- $\beta$ and $\gamma$ in Fc $\gamma$ receptor-mediated phagocytosis. Journal of Experimental Medicine, 2009, 206, i2-i2.	8.5	0