Peter J Cullen

List of Publications by Year in descending order

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76	9,219	57758	82547
papers	citations	44 h-index	72 g-index

89	89	89	10447
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SNX27â€“Retromer directly binds ESCPE-1 to transfer cargo proteins during endosomal recycling. PLoS Biology, 2022, 20, e3001601.	5.6	24
2	ESCPE-1 mediates retrograde endosomal sorting of the SARS-CoV-2 host factor Neuropilin-1. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
3	Sorting nexin 5 mediates virus-induced autophagy and immunity. Nature, 2021, 589, 456-461.	27.8	61
4	Sorting nexin-27 regulates AMPA receptor trafficking through the synaptic adhesion protein LRFN2. ELife, 2021, 10, .	6.0	12
5	Neuropilin-1 is a host factor for SARS-CoV-2 infection. Science, 2020, 370, 861-865.	12.6	1,015
6	Acute inactivation of retromer and ESCPE-1 leads to time-resolved defects in endosomal cargo sorting. Journal of Cell Science, 2020, 133, .	2.0	22
7	Mammalian copper homeostasis requires retromer-dependent recycling of the high-affinity copper transporter 1. Journal of Cell Science, 2020, 133, .	2.0	27
8	A heterodimeric SNX4:SNX7 SNX-BAR autophagy complex coordinates ATG9A trafficking for efficient autophagosome assembly. Journal of Cell Science, 2020, 133, .	2.0	19
9	Editorial overview: Membrane trafficking. Current Opinion in Cell Biology, 2019, 59, iii-v.	5.4	0
10	TFEB controls retromer expression in response to nutrient availability. Journal of Cell Biology, 2019, 218, 3954-3966.	5.2	22
11	Molecular identification of a BAR domain-containing coat complex for endosomal recycling of transmembrane proteins. Nature Cell Biology, 2019, 21, 1219-1233.	10.3	81
12	Retromer Controls Planar Polarity Protein Levels and Asymmetric Localization at Intercellular Junctions. Current Biology, 2019, 29, 484-491.e6.	3.9	16
13	Actin-dependent endosomal receptor recycling. Current Opinion in Cell Biology, 2019, 56, 22-33.	5.4	78
14	Retromer associates with the cytoplasmic amino-terminus of polycystin-2. Journal of Cell Science, 2018, 131, .	2.0	8
15	Endoplasmic Reticulumâ€“Endosome Contact Sites: Specialized Interfaces for Orchestrating Endosomal Tubule Fission?. Biochemistry, 2018, 57, 6738-6740.	2.5	7
16	Endosomal Sorting: Architecture of the Retromer Coat. Current Biology, 2018, 28, R1350-R1352.	3.9	18
17	Structural insights into the architecture and membrane interactions of the conserved COMMD proteins. ELife, 2018, 7, .	6.0	28
18	To degrade or not to degrade: mechanisms and significance of endocytic recycling. Nature Reviews Molecular Cell Biology, 2018, 19, 679-696.	37.0	358

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19	SNX3-retromer requires an evolutionary conserved MON2:DOPEY2:ATP9A complex to mediate Wntless sorting and Wnt secretion. Nature Communications, 2018, 9, 3737.	12.8	51
20	Endosomal Retrieval of Cargo: Retromer Is Not Alone. Trends in Cell Biology, 2018, 28, 807-822.	7.9	114
21	Sorting nexin-21 is a scaffold for the endosomal recruitment of huntingtin. Journal of Cell Science, 2018, 131, .	2.0	8
22	Retromer/WASH dependent sorting of nutrient transporters requires a multivalent interaction network with ANKRD50. Journal of Cell Science, 2017, 130, 382-395.	2.0	48
23	The emerging role of retromer in neuroprotection. Current Opinion in Cell Biology, 2017, 47, 72-82.	5.4	54
24	The Phosphatidylinositol 3,4,5-trisphosphate (PI(3,4,5)P3) Binder Rasa3 Regulates Phosphoinositide 3-kinase (PI3K)-dependent Integrin Î±IIbÎ²3 Outside-in Signaling. Journal of Biological Chemistry, 2017, 292, 1691-1704.	3.4	36
25	Sequence-dependent cargo recognition by SNX-BARs mediates retromer-independent transport of CI-MPR. Journal of Cell Biology, 2017, 216, 3695-3712.	5.2	151
26	Retriever is a multiprotein complex for retromer-independent endosomal cargo recycling. Nature Cell Biology, 2017, 19, 1214-1225.	10.3	243
27	Atypical parkinsonismâ€“associated retromer mutant alters endosomal sorting of specific cargo proteins. Journal of Cell Biology, 2016, 214, 389-399.	5.2	45
28	Parkinson's diseaseâ€“associated mutant VPS35 causes mitochondrial dysfunction by recycling DLP1 complexes. Nature Medicine, 2016, 22, 54-63.	30.7	265
29	Retromer and sorting nexins in endosomal sorting. Biochemical Society Transactions, 2015, 43, 33-47.	3.4	180
30	A defect in the retromer accessory protein, SNX27, manifests by infantile myoclonic epilepsy and neurodegeneration. Neurogenetics, 2015, 16, 215-221.	1.4	44
31	Retromer Binding to FAM21 and the WASH Complex Is Perturbed by the Parkinson Disease-Linked VPS35(D620N) Mutation. Current Biology, 2014, 24, 1670-1676.	3.9	162
32	A unique PDZ domain and arrestin-like fold interaction reveals mechanistic details of endocytic recycling by SNX27-retromer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3604-13.	7.1	151
33	Retromer: A Master Conductor of Endosome Sorting. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016774-a016774.	5.5	362
34	Identification of molecular heterogeneity in SNX27-retromer-mediated endosome-to-plasma membrane recycling. Journal of Cell Science, 2014, 127, 4940-53.	2.0	86
35	Membrane-associated cargo recycling by tubule-based endosomal sorting. Seminars in Cell and Developmental Biology, 2014, 31, 40-47.	5.0	77
36	Clathrin is not required for SNX-BAR-retromer-mediated carrier formation. Journal of Cell Science, 2013, 126, 45-52.	2.0	28

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37	SNX15 links clathrin endocytosis to the PtdIns(3)P early endosome independent of the APPL1 endosome. Journal of Cell Science, 2013, 126, 4885-99.	2.0	22
38	A global analysis of SNX27â€“retromer assembly and cargo specificity reveals a function in glucose and metal ion transport. Nature Cell Biology, 2013, 15, 461-471.	10.3	421
39	Microtubule motors mediate endosomal sorting by maintaining functional domain organization.. Journal of Cell Science, 2013, 126, 2493-501.	2.0	49
40	Molecular basis for SNX-BAR-mediated assembly of distinct endosomal sorting tubules. EMBO Journal, 2012, 31, 4466-4480.	7.8	157
41	SNX17 protects integrins from degradation by sorting between lysosomal and recycling pathways. Journal of Cell Biology, 2012, 197, 219-230.	5.2	170
42	Sorting nexins provide diversity for retromer-dependent trafficking events. Nature Cell Biology, 2012, 14, 29-37.	10.3	284
43	Phosphoinositides in the Mammalian Endo-lysosomal Network. Sub-Cellular Biochemistry, 2012, 59, 65-110.	2.4	27
44	SNXâ€“BARâ€Mediated Endosome Tubulation is Coâ€ordinated with Endosome Maturation. Traffic, 2012, 13, 94-107.	2.7	143
45	A SNX3-dependent retromer pathway mediates retrograde transport of the Wnt sorting receptor Wntless and is required for Wnt secretion. Nature Cell Biology, 2011, 13, 914-923.	10.3	286
46	Phosphoinositides and the regulation of tubular-based endosomal sorting. Biochemical Society Transactions, 2011, 39, 839-850.	3.4	12
47	Recent Advances in Retromer Biology. Traffic, 2011, 12, 963-971.	2.7	100
48	The retromer complex. Advances in Enzyme Regulation, 2010, 50, 216-236.	2.6	76
49	SNXâ€“BAR proteins in phosphoinositide-mediated, tubular-based endosomal sorting. Seminars in Cell and Developmental Biology, 2010, 21, 371-380.	5.0	150
50	Intracellular Membrane Traffic at High Resolution. Methods in Cell Biology, 2010, 96, 619-648.	1.1	46
51	The Retromer Coat Complex Coordinates Endosomal Sorting and Dynein-Mediated Transport, with Carrier Recognition by the trans-Golgi Network. Developmental Cell, 2009, 17, 110-122.	7.0	252
52	Phosphoinositides: Navigation through the endosomal maze. Biochemist, 2009, 31, 20-25.	0.5	3
53	Endosomal sorting and signalling: an emerging role for sorting nexins. Nature Reviews Molecular Cell Biology, 2008, 9, 574-582.	37.0	359
54	Sorting nexin-1 defines an early phase of Salmonella-containing vacuole-remodeling during Salmonella infection. Journal of Cell Science, 2008, 121, 2027-2036.	2.0	92

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55	A loss-of-function screen reveals SNX5 and SNX6 as potential components of the mammalian retromer. Journal of Cell Science, 2007, 120, 45-54.	2.0	210
56	The retromer component sorting nexin-1 is required for efficient retrograde transport of Shiga toxin from early endosome to the trans Golgi network. Journal of Cell Science, 2007, 120, 2010-2021.	2.0	117
57	SNX4 coordinates endosomal sorting of TfnR with dynein-mediated transport into the endocytic recycling compartment. Nature Cell Biology, 2007, 9, 1370-1380.	10.3	233
58	Decoding complex Ca2+ signals through the modulation of Ras signaling. Current Opinion in Cell Biology, 2006, 18, 157-161.	5.4	28
59	The mammalian phosphatidylinositol 3-phosphate 5-kinase (PIKfyve) regulates endosome-to-TGN retrograde transport. Journal of Cell Science, 2006, 119, 3944-3957.	2.0	240
60	Coincidence detection in phosphoinositide signaling. Trends in Cell Biology, 2005, 15, 540-547.	7.9	204
61	Sorting nexin-2 is associated with tubular elements of the early endosome, but is not essential for retromer-mediated endosome-to-TGN transport. Journal of Cell Science, 2005, 118, 4527-4539.	2.0	99
62	Sorting Nexin-1 Mediates Tubular Endosome-to-TGN Transport through Coincidence Sensing of High-Curvature Membranes and 3-Phosphoinositides. Current Biology, 2004, 14, 1791-1800.	3.9	414
63	Calcium Signalling: The Ups and Downs of Protein Kinase C. Current Biology, 2003, 13, R699-R701.	3.9	24
64	The Phox Homology (PX) Domain-dependent, 3-Phosphoinositide-mediated Association of Sorting Nexin-1 with an Early Sorting Endosomal Compartment Is Required for Its Ability to Regulate Epidermal Growth Factor Receptor Degradation. Journal of Biological Chemistry, 2002, 277, 48730-48736.	3.4	157
65	Integration of calcium and RAS signalling. Nature Reviews Molecular Cell Biology, 2002, 3, 339-348.	37.0	341
66	Modular phosphoinositide-binding domains â€“ their role in signalling and membrane trafficking. Current Biology, 2001, 11, R882-R893.	3.9	161
67	Effects of elevated expression of inositol 1,4,5-trisphosphate 3-kinase B on Ca2+ homoeostasis in HeLa cells. Biochemical Journal, 2000, 352, 709-715.	3.7	10
68	Identification of centaurin-Î±1 as a potential in vivo phosphatidylinositol 3,4,5-trisphosphate-binding protein that is functionally homologous to the yeast ADP-ribosylation factor (ARF) GTPase-activating protein, Gcs1. Biochemical Journal, 1999, 340, 359-363.	3.7	66
69	Confocal imaging of the subcellular distribution of phosphatidylinositol 3,4,5-trisphosphate in insulin- and PDGF-stimulated 3T3-L1 adipocytes. Biochemical Journal, 1999, 344, 511-518.	3.7	98
70	Identification of the Ras GTPase-activating protein GAP1m as an in vivo phosphatidylinositol 3,4,5-trisphosphate-binding protein. Biochemical Society Transactions, 1999, 27, A104-A104.	3.4	0
71	MOLECULAR MODELLING OF THE INOSITOL 1,3,4,5-TETRAKISPHOSPHATE BINDING GAP1IP4BP AND GAP1m PH DOMAINS. Biochemical Society Transactions, 1999, 27, A104-A104.	3.4	0
72	STRUCTURAL AND FUNCTIONAL ANALYSIS OF THE PUTATIVE INOSITOL 1,3,4,5-TETRAKISPHOSPHATE RECEPTORS GAP1IP4BP AND GAP1m. Biochemical Society Transactions, 1999, 27, A104-A104.	3.4	0

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73	Modulation of Ins(2,4,5)P3-stimulated Ca2+ mobilization by Ins(1,3,4,5)P4: enhancement by activated G-proteins, and evidence for the involvement of a GAP1 protein, a putative Ins(1,3,4,5)P4 receptor. Biochemical Journal, 1998, 331, 947-952.	3.7	38
74	Nerve growth factor- and epidermal growth factor-stimulated translocation of the ADP-ribosylation factor-exchange factor GRP1 to the plasma membrane of PC12 cells requires activation of phosphatidylinositol 3-kinase and the GRP1 pleckstrin homology domain. Biochemical Journal, 1998, 335, 139-146.	3.7	137
75	Membrane association, localization and topology of rat inositol 1,4,5-trisphosphate 3-kinase B: implications for membrane traffic and Ca2+ homoeostasis. Biochemical Journal, 1997, 324, 579-589.	3.7	38
76	GAP1IP4BP; a protein linking inositol 1,3,4,5-tetrakisphosphate with Ras and Ca2+ homeostasis. Biochemical Society Transactions, 1997, 25, 507S-507S.	3.4	0