

Peter J Cullen

List of Publications by Year in descending order

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76
papers

9,219
citations

57719

44
h-index

82499

72
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89
all docs

89
docs citations

89
times ranked

10447
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuropilin-1 is a host factor for SARS-CoV-2 infection. <i>Science</i> , 2020, 370, 861-865.	6.0	1,015
2	A global analysis of SNX27's retromer assembly and cargo specificity reveals a function in glucose and metal ion transport. <i>Nature Cell Biology</i> , 2013, 15, 461-471.	4.6	421
3	Sorting Nexin-1 Mediates Tubular Endosome-to-TGN Transport through Coincidence Sensing of High-Curvature Membranes and 3-Phosphoinositides. <i>Current Biology</i> , 2004, 14, 1791-1800.	1.8	414
4	Retromer: A Master Conductor of Endosome Sorting. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a016774-a016774.	2.3	362
5	Endosomal sorting and signalling: an emerging role for sorting nexins. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 574-582.	16.1	359
6	To degrade or not to degrade: mechanisms and significance of endocytic recycling. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 679-696.	16.1	358
7	Integration of calcium and RAS signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 339-348.	16.1	341
8	A SNX3-dependent retromer pathway mediates retrograde transport of the Wnt sorting receptor Wntless and is required for Wnt secretion. <i>Nature Cell Biology</i> , 2011, 13, 914-923.	4.6	286
9	Sorting nexins provide diversity for retromer-dependent trafficking events. <i>Nature Cell Biology</i> , 2012, 14, 29-37.	4.6	284
10	Parkinson's disease-associated mutant VPS35 causes mitochondrial dysfunction by recycling DLP1 complexes. <i>Nature Medicine</i> , 2016, 22, 54-63.	15.2	265
11	The Retromer Coat Complex Coordinates Endosomal Sorting and Dynein-Mediated Transport, with Carrier Recognition by the trans-Golgi Network. <i>Developmental Cell</i> , 2009, 17, 110-122.	3.1	252
12	Retriever is a multiprotein complex for retromer-independent endosomal cargo recycling. <i>Nature Cell Biology</i> , 2017, 19, 1214-1225.	4.6	243
13	The mammalian phosphatidylinositol 3-phosphate 5-kinase (PIKfyve) regulates endosome-to-TGN retrograde transport. <i>Journal of Cell Science</i> , 2006, 119, 3944-3957.	1.2	240
14	SNX4 coordinates endosomal sorting of TfR with dynein-mediated transport into the endocytic recycling compartment. <i>Nature Cell Biology</i> , 2007, 9, 1370-1380.	4.6	233
15	A loss-of-function screen reveals SNX5 and SNX6 as potential components of the mammalian retromer. <i>Journal of Cell Science</i> , 2007, 120, 45-54.	1.2	210
16	Coincidence detection in phosphoinositide signaling. <i>Trends in Cell Biology</i> , 2005, 15, 540-547.	3.6	204
17	Retromer and sorting nexins in endosomal sorting. <i>Biochemical Society Transactions</i> , 2015, 43, 33-47.	1.6	180
18	SNX17 protects integrins from degradation by sorting between lysosomal and recycling pathways. <i>Journal of Cell Biology</i> , 2012, 197, 219-230.	2.3	170

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19	Retromer Binding to FAM21 and the WASH Complex Is Perturbed by the Parkinson Disease-Linked VPS35(D620N) Mutation. <i>Current Biology</i> , 2014, 24, 1670-1676.	1.8	162
20	Modular phosphoinositide-binding domains “ their role in signalling and membrane trafficking. <i>Current Biology</i> , 2001, 11, R882-R893.	1.8	161
21	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. <i>Journal of Biological Chemistry</i> , 2002, 277, 48730-48736.	1.6	157
22	Molecular basis for SNX-BAR-mediated assembly of distinct endosomal sorting tubules. <i>EMBO Journal</i> , 2012, 31, 4466-4480.	3.5	157
23	A unique PDZ domain and arrestin-like fold interaction reveals mechanistic details of endocytic recycling by SNX27-retromer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3604-13.	3.3	151
24	Sequence-dependent cargo recognition by SNX-BARs mediates retromer-independent transport of CI-MPR. <i>Journal of Cell Biology</i> , 2017, 216, 3695-3712.	2.3	151
25	SNX-BAR proteins in phosphoinositide-mediated, tubular-based endosomal sorting. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 371-380.	2.3	150
26	SNX-BAR-Mediated Endosome Tubulation is Coordinated with Endosome Maturation. <i>Traffic</i> , 2012, 13, 94-107.	1.3	143
27	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. <i>Biochemical Journal</i> , 1998, 335, 139-146.	1.7	137
28	The retromer component sorting nexin-1 is required for efficient retrograde transport of Shiga toxin from early endosome to the trans Golgi network. <i>Journal of Cell Science</i> , 2007, 120, 2010-2021.	1.2	117
29	Endosomal Retrieval of Cargo: Retromer Is Not Alone. <i>Trends in Cell Biology</i> , 2018, 28, 807-822.	3.6	114
30	Recent Advances in Retromer Biology. <i>Traffic</i> , 2011, 12, 963-971.	1.3	100
31	Sorting nexin-2 is associated with tubular elements of the early endosome, but is not essential for retromer-mediated endosome-to-TGN transport. <i>Journal of Cell Science</i> , 2005, 118, 4527-4539.	1.2	99
32	Confocal imaging of the subcellular distribution of phosphatidylinositol 3,4,5-trisphosphate in insulin- and PDGF-stimulated 3T3-L1 adipocytes. <i>Biochemical Journal</i> , 1999, 344, 511-518.	1.7	98
33	Sorting nexin-1 defines an early phase of <i>Salmonella</i> -containing vacuole-remodeling during <i>Salmonella</i> infection. <i>Journal of Cell Science</i> , 2008, 121, 2027-2036.	1.2	92
34	Identification of molecular heterogeneity in SNX27-retromer-mediated endosome-to-plasma membrane recycling. <i>Journal of Cell Science</i> , 2014, 127, 4940-53.	1.2	86
35	Molecular identification of a BAR domain-containing coat complex for endosomal recycling of transmembrane proteins. <i>Nature Cell Biology</i> , 2019, 21, 1219-1233.	4.6	81
36	Actin-dependent endosomal receptor recycling. <i>Current Opinion in Cell Biology</i> , 2019, 56, 22-33.	2.6	78

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37	Membrane-associated cargo recycling by tubule-based endosomal sorting. <i>Seminars in Cell and Developmental Biology</i> , 2014, 31, 40-47.	2.3	77
38	The retromer complex. <i>Advances in Enzyme Regulation</i> , 2010, 50, 216-236.	2.9	76
39	Identification of centaurin-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. <i>Biochemical Journal</i> , 1999, 340, 359-363.	1.7	66
40	Sorting nexin 5 mediates virus-induced autophagy and immunity. <i>Nature</i> , 2021, 589, 456-461.	13.7	61
41	The emerging role of retromer in neuroprotection. <i>Current Opinion in Cell Biology</i> , 2017, 47, 72-82.	2.6	54
42	SNX3-retromer requires an evolutionary conserved MON2:DOPEY2:ATP9A complex to mediate Wntless sorting and Wnt secretion. <i>Nature Communications</i> , 2018, 9, 3737.	5.8	51
43	Microtubule motors mediate endosomal sorting by maintaining functional domain organization.. <i>Journal of Cell Science</i> , 2013, 126, 2493-501.	1.2	49
44	Retromer/WASH dependent sorting of nutrient transporters requires a multivalent interaction network with ANKRD50. <i>Journal of Cell Science</i> , 2017, 130, 382-395.	1.2	48
45	Intracellular Membrane Traffic at High Resolution. <i>Methods in Cell Biology</i> , 2010, 96, 619-648.	0.5	46
46	Atypical parkinsonism-associated retromer mutant alters endosomal sorting of specific cargo proteins. <i>Journal of Cell Biology</i> , 2016, 214, 389-399.	2.3	45
47	A defect in the retromer accessory protein, SNX27, manifests by infantile myoclonic epilepsy and neurodegeneration. <i>Neurogenetics</i> , 2015, 16, 215-221.	0.7	44
48	Membrane association, localization and topology of rat inositol 1,4,5-trisphosphate 3-kinase B: implications for membrane traffic and Ca ²⁺ homeostasis. <i>Biochemical Journal</i> , 1997, 324, 579-589.	1.7	38
49	Modulation of Ins(2,4,5)P ₃ -stimulated Ca ²⁺ mobilization by Ins(1,3,4,5)P ₄ : enhancement by activated G-proteins, and evidence for the involvement of a GAP1 protein, a putative Ins(1,3,4,5)P ₄ receptor. <i>Biochemical Journal</i> , 1998, 331, 947-952.	1.7	38
50	The Phosphatidylinositol 3,4,5-trisphosphate (PI(3,4,5)P ₃) Binder Rasa3 Regulates Phosphoinositide 3-kinase (PI3K)-dependent Integrin β ₃ Outside-in Signaling. <i>Journal of Biological Chemistry</i> , 2017, 292, 1691-1704.	1.6	36
51	Decoding complex Ca ²⁺ signals through the modulation of Ras signaling. <i>Current Opinion in Cell Biology</i> , 2006, 18, 157-161.	2.6	28
52	Clathrin is not required for SNX-BAR-retromer-mediated carrier formation. <i>Journal of Cell Science</i> , 2013, 126, 45-52.	1.2	28
53	Structural insights into the architecture and membrane interactions of the conserved COMMD proteins. <i>ELife</i> , 2018, 7, .	2.8	28
54	Phosphoinositides in the Mammalian Endo-lysosomal Network. <i>Sub-Cellular Biochemistry</i> , 2012, 59, 65-110.	1.0	27

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55	Mammalian copper homeostasis requires retromer-dependent recycling of the high-affinity copper transporter 1. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	27
56	Calcium Signalling: The Ups and Downs of Protein Kinase C. <i>Current Biology</i> , 2003, 13, R699-R701.	1.8	24
57	SNX27â€™Retromer directly binds ESCPE-1 to transfer cargo proteins during endosomal recycling. <i>PLoS Biology</i> , 2022, 20, e3001601.	2.6	24
58	SNX15 links clathrin endocytosis to the PtdIns(3)P early endosome independent of the APPL1 endosome. <i>Journal of Cell Science</i> , 2013, 126, 4885-99.	1.2	22
59	TFEB controls retromer expression in response to nutrient availability. <i>Journal of Cell Biology</i> , 2019, 218, 3954-3966.	2.3	22
60	Acute inactivation of retromer and ESCPE-1 leads to time-resolved defects in endosomal cargo sorting. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	22
61	A heterodimeric SNX4:SNX7 SNX-BAR autophagy complex coordinates ATG9A trafficking for efficient autophagosome assembly. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	19
62	Endosomal Sorting: Architecture of the Retromer Coat. <i>Current Biology</i> , 2018, 28, R1350-R1352.	1.8	18
63	ESCPE-1 mediates retrograde endosomal sorting of the SARS-CoV-2 host factor Neuropilin-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	17
64	Retromer Controls Planar Polarity Protein Levels and Asymmetric Localization at Intercellular Junctions. <i>Current Biology</i> , 2019, 29, 484-491.e6.	1.8	16
65	Phosphoinositides and the regulation of tubular-based endosomal sorting. <i>Biochemical Society Transactions</i> , 2011, 39, 839-850.	1.6	12
66	Sorting nexin-27 regulates AMPA receptor trafficking through the synaptic adhesion protein LRFN2. <i>ELife</i> , 2021, 10, .	2.8	12
67	Effects of elevated expression of inositol 1,4,5-trisphosphate 3-kinase B on Ca ²⁺ homeostasis in HeLa cells. <i>Biochemical Journal</i> , 2000, 352, 709-715.	1.7	10
68	Retromer associates with the cytoplasmic amino-terminus of polycystin-2. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	8
69	Sorting nexin-21 is a scaffold for the endosomal recruitment of huntingtin. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	8
70	Endoplasmic Reticulumâ€™Endosome Contact Sites: Specialized Interfaces for Orchestrating Endosomal Tubule Fission?. <i>Biochemistry</i> , 2018, 57, 6738-6740.	1.2	7
71	Phosphoinositides: Navigation through the endosomal maze. <i>Biochemist</i> , 2009, 31, 20-25.	0.2	3
72	GAP1IP4BP; a protein linking inositol 1,3,4,5-tetrakisphosphate with Ras and Ca ²⁺ homeostasis. <i>Biochemical Society Transactions</i> , 1997, 25, 507S-507S.	1.6	0

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73	Identification of the Ras GTPase-activating protein GAP1m as an in vivo phosphatidylinositol 3,4,5-trisphosphate-binding protein. <i>Biochemical Society Transactions</i> , 1999, 27, A104-A104.	1.6	0
74	MOLECULAR MODELLING OF THE INOSITOL 1,3,4,5-TETRAKISPHOSPHATE BINDING GAP1IP4BP AND GAP1m PH DOMAINS. <i>Biochemical Society Transactions</i> , 1999, 27, A104-A104.	1.6	0
75	STRUCTURAL AND FUNCTIONAL ANALYSIS OF THE PUTATIVE INOSITOL 1,3,4,5-TETRAKISPHOSPHATE RECEPTORS GAP1IP4BP AND GAP1m. <i>Biochemical Society Transactions</i> , 1999, 27, A104-A104.	1.6	0
76	Editorial overview: Membrane trafficking. <i>Current Opinion in Cell Biology</i> , 2019, 59, iii-v.	2.6	0