

Peter J Cullen

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76 papers	7,053 citations	40 h-index	83 g-index
89 ext. papers	8,391 ext. citations	10.9 avg, IF	6.32 L-index

#	Paper	IF	Citations
76	Neuropilin-1 is a host factor for SARS-CoV-2 infection. <i>Science</i> , 2020 , 370, 861-865	33.3	568
75	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, 1791-800	6.3	365
74	A global analysis of SNX27-retromer assembly and cargo specificity reveals a function in glucose and metal ion transport. <i>Nature Cell Biology</i> , 2013 , 15, 461-71	23.4	324
73	Integration of calcium and Ras signalling. <i>Nature Reviews Molecular Cell Biology</i> , 2002 , 3, 339-48	48.7	309
72	Endosomal sorting and signalling: an emerging role for sorting nexins. <i>Nature Reviews Molecular Cell Biology</i> , 2008 , 9, 574-82	48.7	300
71	Retromer: a master conductor of endosome sorting. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014 , 6,	10.2	286
70	Sorting nexins provide diversity for retromer-dependent trafficking events. <i>Nature Cell Biology</i> , 2011 , 14, 29-37	23.4	249
69	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	23.4	248
68	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, 110-22	10.2	214
67	Parkinson's disease-associated mutant VPS35 causes mitochondrial dysfunction by recycling DLP1 complexes. <i>Nature Medicine</i> , 2016 , 22, 54-63	50.5	210
66	SNX4 coordinates endosomal sorting of TfnR with dynein-mediated transport into the endocytic recycling compartment. <i>Nature Cell Biology</i> , 2007 , 9, 1370-80	23.4	206
65	The mammalian phosphatidylinositol 3-phosphate 5-kinase (PIKfyve) regulates endosome-to-TGN retrograde transport. <i>Journal of Cell Science</i> , 2006 , 119, 3944-57	5.3	202
64	To degrade or not to degrade: mechanisms and significance of endocytic recycling. <i>Nature Reviews Molecular Cell Biology</i> , 2018 , 19, 679-696	48.7	190
63	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	5.3	181
62	Coincidence detection in phosphoinositide signaling. <i>Trends in Cell Biology</i> , 2005 , 15, 540-7	18.3	180
61	Retriever is a multiprotein complex for retromer-independent endosomal cargo recycling. <i>Nature Cell Biology</i> , 2017 , 19, 1214-1225	23.4	151
60	Modular phosphoinositide-binding domains--their role in signalling and membrane trafficking. <i>Current Biology</i> , 2001 , 11, R882-93	6.3	149

59	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, 48730-6	5.4	138
58	SNX17 protects integrins from degradation by sorting between lysosomal and recycling pathways. <i>Journal of Cell Biology</i> , 2012 , 197, 219-30	7.3	136
57	Retromer and sorting nexins in endosomal sorting. <i>Biochemical Society Transactions</i> , 2015 , 43, 33-47	5.1	132
56	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 (Pt 1), 139-46	3.8	131
55	SNX-BAR proteins in phosphoinositide-mediated, tubular-based endosomal sorting. <i>Seminars in Cell and Developmental Biology</i> , 2010 , 21, 371-80	7.5	123
54	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	11.5	119
53	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	6.3	118
52	SNX-BAR-mediated endosome tubulation is co-ordinated with endosome maturation. <i>Traffic</i> , 2012 , 13, 94-107	5.7	118
51	Molecular basis for SNX-BAR-mediated assembly of distinct endosomal sorting tubules. <i>EMBO Journal</i> , 2012 , 31, 4466-80	13	115
50	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, 2010-21	5.3	107
49	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	3.8	97
48	Sequence-dependent cargo recognition by SNX-BARs mediates retromer-independent transport of CI-MPR. <i>Journal of Cell Biology</i> , 2017 , 216, 3695-3712	7.3	94
47	Recent advances in retromer biology. <i>Traffic</i> , 2011 , 12, 963-71	5.7	91
46	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, 4527-39	5.3	88
45	Sorting nexin-1 defines an early phase of Salmonella-containing vacuole-remodeling during Salmonella infection. <i>Journal of Cell Science</i> , 2008 , 121, 2027-36	5.3	82
44	Endosomal Retrieval of Cargo: Retromer Is Not Alone. <i>Trends in Cell Biology</i> , 2018 , 28, 807-822	18.3	71
43	The retromer complex. <i>Advances in Enzyme Regulation</i> , 2010 , 50, 216-36		71
42	Identification of molecular heterogeneity in SNX27-retromer-mediated endosome-to-plasma-membrane recycling. <i>Journal of Cell Science</i> , 2014 , 127, 4940-53	5.3	69

41	Membrane-associated cargo recycling by tubule-based endosomal sorting. <i>Seminars in Cell and Developmental Biology</i> , 2014 , 31, 40-7	7.5	66
40	Identification of centaurin- β 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	3.8	59
39	The emerging role of retromer in neuroprotection. <i>Current Opinion in Cell Biology</i> , 2017 , 47, 72-82	9	43
38	Molecular identification of a BAR domain-containing coat complex for endosomal recycling of transmembrane proteins. <i>Nature Cell Biology</i> , 2019 , 21, 1219-1233	23.4	42
37	Intracellular membrane traffic at high resolution. <i>Methods in Cell Biology</i> , 2010 , 96, 619-48	1.8	42
36	A defect in the retromer accessory protein, SNX27, manifests by infantile myoclonic epilepsy and neurodegeneration. <i>Neurogenetics</i> , 2015 , 16, 215-221	3	38
35	Microtubule motors mediate endosomal sorting by maintaining functional domain organization. <i>Journal of Cell Science</i> , 2013 , 126, 2493-501	5.3	38
34	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 (Pt 3), 947-52	3.8	38
33	Actin-dependent endosomal receptor recycling. <i>Current Opinion in Cell Biology</i> , 2019 , 56, 22-33	9	37
32	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 (Pt 2), 579-89	3.8	36
31	Atypical parkinsonism-associated retromer mutant alters endosomal sorting of specific cargo proteins. <i>Journal of Cell Biology</i> , 2016 , 214, 389-99	7.3	33
30	Retromer- and WASH-dependent sorting of nutrient transporters requires a multivalent interaction network with ANKRD50. <i>Journal of Cell Science</i> , 2017 , 130, 382-395	5.3	33
29	SNX3-retromer requires an evolutionary conserved MON2:DOPEY2:ATP9A complex to mediate Wntless sorting and Wnt secretion. <i>Nature Communications</i> , 2018 , 9, 3737	17.4	32
28	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	5.4	25
27	Decoding complex Ca ²⁺ signals through the modulation of Ras signaling. <i>Current Opinion in Cell Biology</i> , 2006 , 18, 157-61	9	25
26	Clathrin is not required for SNX-BAR-retromer-mediated carrier formation. <i>Journal of Cell Science</i> , 2013 , 126, 45-52	5.3	22
25	Phosphoinositides in the mammalian endo-lysosomal network. <i>Sub-Cellular Biochemistry</i> , 2012 , 59, 65-110	10.5	22
24	Sorting nexin 5 mediates virus-induced autophagy and immunity. <i>Nature</i> , 2021 , 589, 456-461	50.4	21

23	Calcium signalling: the ups and downs of protein kinase C. <i>Current Biology</i> , 2003 , 13, R699-701	6.3	20
22	SNX15 links clathrin endocytosis to the PtdIns3P early endosome independently of the APPL1 endosome. <i>Journal of Cell Science</i> , 2013 , 126, 4885-99	5.3	19
21	Endosomal Sorting: Architecture of the Retromer Coat. <i>Current Biology</i> , 2018 , 28, R1350-R1352	6.3	13
20	Retromer Controls Planar Polarity Protein Levels and Asymmetric Localization at Intercellular Junctions. <i>Current Biology</i> , 2019 , 29, 484-491.e6	6.3	11
19	Structural insights into the architecture and membrane interactions of the conserved COMMD proteins. <i>ELife</i> , 2018 , 7,	8.9	11
18	Phosphoinositides and the regulation of tubular-based endosomal sorting. <i>Biochemical Society Transactions</i> , 2011 , 39, 839-50	5.1	10
17	Acute inactivation of retromer and ESCPE-1 leads to time-resolved defects in endosomal cargo sorting. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	9
16	A heterodimeric SNX4--SNX7 SNX-BAR autophagy complex coordinates ATG9A trafficking for efficient autophagosome assembly. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	8
15	TFEB controls retromer expression in response to nutrient availability. <i>Journal of Cell Biology</i> , 2019 , 218, 3954-3966	7.3	8
14	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	3.8	8
13	Sorting nexin-21 is a scaffold for the endosomal recruitment of huntingtin. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	6
12	Mammalian copper homeostasis requires retromer-dependent recycling of the high-affinity copper transporter 1. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	6
11	Sorting nexin-27 regulates AMPA receptor trafficking through the synaptic adhesion protein LRFN2. <i>ELife</i> , 2021 , 10,	8.9	5
10	Endoplasmic Reticulum-Endosome Contact Sites: Specialized Interfaces for Orchestrating Endosomal Tubule Fission?. <i>Biochemistry</i> , 2018 , 57, 6738-6740	3.2	5
9	SNX27-Retromer directly binds ESCPE-1 to transfer cargo proteins during endosomal recycling.. <i>PLoS Biology</i> , 2022 , 20, e3001601	9.7	5
8	Retromer associates with the cytoplasmic amino-terminus of polycystin-2. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	2
7	Phosphoinositides: Navigation through the endosomal maze. <i>Biochemist</i> , 2009 , 31, 20-25	0.5	2
6	Sorting nexin-27 regulates AMPA receptor trafficking through the synaptic adhesion protein LRFN2		1

5	Proteomic identification and structural basis for the interaction between sorting nexin SNX17 and PDLIM family proteins	1
4	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	5.1
3	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	5.1
2	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	5.1
1	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	5.1