

Randy Schekman

List of Publications by Year in descending order

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124
papers

24,552
citations

18482

62
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18647

119
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144
all docs

144
docs citations

144
times ranked

25386
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Identification of 23 complementation groups required for post-translational events in the yeast secretory pathway. <i>Cell</i> , 1980, 21, 205-215.	28.9	1,754
3	A subfamily of stress proteins facilitates translocation of secretory and mitochondrial precursor polypeptides. <i>Nature</i> , 1988, 332, 800-805.	27.8	1,567
4	Order of events in the yeast secretory pathway. <i>Cell</i> , 1981, 25, 461-469.	28.9	816
5	BI-DIRECTIONAL PROTEIN TRANSPORT BETWEEN THE ER AND GOLGI. <i>Annual Review of Cell and Developmental Biology</i> , 2004, 20, 87-123.	9.4	815
6	Distinct sets of SEC genes govern transport vesicle formation and fusion early in the secretory pathway. <i>Cell</i> , 1990, 61, 723-733.	28.9	726
7	Early stages in the yeast secretory pathway are required for transport of carboxypeptidase Y to the vacuole. <i>Cell</i> , 1982, 30, 439-448.	28.9	603
8	COPII-Coated Vesicle Formation Reconstituted with Purified Coat Proteins and Chemically Defined Liposomes. <i>Cell</i> , 1998, 93, 263-275.	28.9	590
9	Vesicle-Mediated Protein Sorting. <i>Annual Review of Biochemistry</i> , 1992, 61, 471-516.	11.1	493
10	Y-box protein 1 is required to sort microRNAs into exosomes in cells and in a cell-free reaction. <i>ELife</i> , 2016, 5, .	6.0	476
11	Multiple Cargo Binding Sites on the COPII Subunit Sec24p Ensure Capture of Diverse Membrane Proteins into Transport Vesicles. <i>Cell</i> , 2003, 114, 497-509.	28.9	461
12	Sar1p N-Terminal Helix Initiates Membrane Curvature and Completes the Fission of a COPII Vesicle. <i>Cell</i> , 2005, 122, 605-617.	28.9	455
13	SEC12 encodes a guanine-nucleotide-exchange factor essential for transport vesicle budding from the ER. <i>Nature</i> , 1993, 365, 347-349.	27.8	433
14	COPII cargo interactions direct protein sorting into ER-derived transport vesicles. <i>Nature</i> , 1998, 391, 187-190.	27.8	374
15	The ER Golgi intermediate compartment is a key membrane source for the LC3 lipidation step of autophagosome biogenesis. <i>ELife</i> , 2013, 2, e00947.	6.0	348
16	Reconstitution of SEC gene product-dependent intercompartmental protein transport. <i>Cell</i> , 1988, 54, 335-344.	28.9	336
17	COPII and the regulation of protein sorting in mammals. <i>Nature Cell Biology</i> , 2012, 14, 20-28.	10.3	331
18	TANGO1 Facilitates Cargo Loading at Endoplasmic Reticulum Exit Sites. <i>Cell</i> , 2009, 136, 891-902.	28.9	320

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19	GTP/GDP exchange by Sec12p enables COPII vesicle bud formation on synthetic liposomes. EMBO Journal, 2004, 23, 4286-4296.	7.8	299
20	Lyticase: Endoglucanase and Protease Activities That Act Together in Yeast Cell Lysis. Journal of Bacteriology, 1980, 142, 414-423.	2.2	295
21	Ubiquitin-dependent regulation of COPII coat size and function. Nature, 2012, 482, 495-500.	27.8	292
22	Translocation of interleukin-1 β into a vesicle intermediate in autophagy-mediated secretion. ELife, 2015, 4, .	6.0	288
23	COPI- and COPII-coated vesicles bud directly from the endoplasmic reticulum in yeast. Cell, 1995, 83, 1183-1196.	28.9	277
24	Cranio-lenticulo-sutural dysplasia is caused by a SEC23A mutation leading to abnormal endoplasmic-reticulum-to-Golgi trafficking. Nature Genetics, 2006, 38, 1192-1197.	21.4	273
25	Dynamics of the COPII coat with GTP and stable analogues. Nature Cell Biology, 2001, 3, 531-537.	10.3	270
26	Broad role for YBX1 in defining the small noncoding RNA composition of exosomes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8987-E8995.	7.1	250
27	Cargo selection into COPII vesicles is driven by the Sec24p subunit. EMBO Journal, 2002, 21, 6105-6113.	7.8	246
28	UNC93B1 mediates differential trafficking of endosomal TLRs. ELife, 2013, 2, e00291.	6.0	237
29	Transparency in authors' contributions and responsibilities to promote integrity in scientific publication. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2557-2560.	7.1	233
30	Sec24b selectively sorts Vangl2 to regulate planar cell polarity during neural tube closure. Nature Cell Biology, 2010, 12, 41-46.	10.3	228
31	Protein Sorting at the <i>trans</i> -Golgi Network. Annual Review of Cell and Developmental Biology, 2014, 30, 169-206.	9.4	219
32	COPII-mediated vesicle formation at a glance. Journal of Cell Science, 2011, 124, 1-4.	2.0	200
33	SEC21 is a gene required for ER to Golgi protein transport that encodes a subunit of a yeast coatmer. Nature, 1992, 360, 603-605.	27.8	196
34	Nucleation of COPII Vesicular Coat Complex by Endoplasmic Reticulum to Golgi Vesicle SNAREs. , 1998, 281, 698-700.		184
35	Phosphatidylinositol 3-kinase and COPII generate LC3 lipidation vesicles from the ER-Golgi intermediate compartment. ELife, 2014, 3, e04135.	6.0	168
36	Regulated import and degradation of a cytosolic protein in the yeast vacuole. Nature, 1991, 350, 313-318.	27.8	167

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37	In vitro reconstitution of ER-stress induced ATF6 transport in COPII vesicles. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17775-17780.	7.1	167
38	The Genetic Basis of a Craniofacial Disease Provides Insight into COPII Coat Assembly. Developmental Cell, 2007, 13, 623-634.	7.0	166
39	Distinct mechanisms of microRNA sorting into cancer cell-derived extracellular vesicle subtypes. ELife, 2019, 8, .	6.0	164
40	Unconventional Secretion, Unconventional Solutions. Science, 2013, 340, 559-561.	12.6	160
41	The yeasts Rho1p and Pkc1p regulate the transport of chitin synthase III (Chs3p) from internal stores to the plasma membrane. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10287-10292.	7.1	139
42	COPII â€” a flexible vesicle formation system. Current Opinion in Cell Biology, 2013, 25, 420-427.	5.4	136
43	Remodeling of ER exit sites initiates a membrane supply pathway for autophagosome biogenesis. EMBO Reports, 2017, 18, 1586-1603.	4.5	134
44	Lst1p and Sec24p Cooperate in Sorting of the Plasma Membrane Atpase into Copii Vesicles in Saccharomyces cerevisiae. Journal of Cell Biology, 2000, 151, 973-984.	5.2	133
45	Chs6p-dependent Anterograde Transport of Chs3p from the Chitosome to the Plasma Membrane in Saccharomyces cerevisiae. Molecular Biology of the Cell, 1998, 9, 1565-1576.	2.1	127
46	Sec16p potentiates the action of COPII proteins to bud transport vesicles. Journal of Cell Biology, 2002, 158, 1029-1038.	5.2	121
47	Concentrative sorting of secretory cargo proteins into COPII-coated vesicles. Journal of Cell Biology, 2002, 159, 915-921.	5.2	112
48	The structure of the COPII transport-vesicle coat assembled on membranes. ELife, 2013, 2, e00951.	6.0	112
49	Exomer: a coat complex for transport of select membrane proteins from the trans-Golgi network to the plasma membrane in yeast. Journal of Cell Biology, 2006, 174, 973-983.	5.2	110
50	Regulation of the CUL3 Ubiquitin Ligase by a Calcium-Dependent Co-adaptor. Cell, 2016, 167, 525-538.e14.	28.9	110
51	SEC24A deficiency lowers plasma cholesterol through reduced PCSK9 secretion. ELife, 2013, 2, e00444.	6.0	104
52	COPII-coated vesicles: flexible enough for large cargo?. Current Opinion in Cell Biology, 2005, 17, 345-352.	5.4	101
53	The Bacterial Virulence Factor NleA Inhibits Cellular Protein Secretion by Disrupting Mammalian COPII Function. Cell Host and Microbe, 2007, 2, 160-171.	11.0	96
54	COPII-coated membranes function as transport carriers of intracellular procollagen I. Journal of Cell Biology, 2017, 216, 1745-1759.	5.2	93

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55	Uncoupled Packaging of Amyloid Precursor Protein and Presenilin 1 into Coat Protein Complex II Vesicles. <i>Journal of Biological Chemistry</i> , 2005, 280, 7758-7768.	3.4	89
56	Sec24p and Sec16p cooperate to regulate the GTP cycle of the COPII coat. <i>EMBO Journal</i> , 2012, 31, 1014-1027.	7.8	88
57	Multibudded tubules formed by COPII on artificial liposomes. <i>Scientific Reports</i> , 2011, 1, 17.	3.3	86
58	Avoidance of Autophagy Mediated by PlcA or ActA Is Required for <i>Listeria monocytogenes</i> Growth in Macrophages. <i>Infection and Immunity</i> , 2015, 83, 2175-2184.	2.2	82
59	Ent3p and Ent5p Exhibit Cargo-specific Functions in Trafficking Proteins between the Trans-Golgi Network and the Endosomes in Yeast. <i>Molecular Biology of the Cell</i> , 2007, 18, 1803-1815.	2.1	74
60	The ADP Ribosylation Factor-Nucleotide Exchange Factors Gea1p and Gea2p Have Overlapping, but Not Redundant Functions in Retrograde Transport from the Golgi to the Endoplasmic Reticulum. <i>Molecular Biology of the Cell</i> , 2001, 12, 1035-1045.	2.1	71
61	Sec24p and Iss1p Function Interchangeably in Transport Vesicle Formation from the Endoplasmic Reticulum in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2000, 11, 983-998.	2.1	70
62	Selective sorting of microRNAs into exosomes by phase-separated YBX1 condensates. <i>ELife</i> , 2021, 10, .	6.0	70
63	Chs5/6 Complex: A Multiprotein Complex That Interacts with and Conveys Chitin Synthase III from the Trans-Golgi Network to the Cell Surface. <i>Molecular Biology of the Cell</i> , 2006, 17, 4157-4166.	2.1	68
64	Peroxisomes: Another Branch of the Secretory Pathway?. <i>Cell</i> , 2005, 122, 1-2.	28.9	66
65	A novel GTP-binding proteinâ€“adaptor protein complex responsible for export of Vangl2 from the trans Golgi network. <i>ELife</i> , 2013, 2, e00160.	6.0	66
66	Unique COPII component AtSar1a/AtSec23a pair is required for the distinct function of protein ER export in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14360-14365.	7.1	65
67	TFG facilitates outer coat disassembly on COPII transport carriers to promote tethering and fusion with ERâ€“Golgi intermediate compartments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7707-E7716.	7.1	65
68	Unconventional secretion of FABP4 by endosomes and secretory lysosomes. <i>Journal of Cell Biology</i> , 2018, 217, 649-665.	5.2	64
69	The protein-vesicle network of autophagy. <i>Current Opinion in Cell Biology</i> , 2014, 29, 18-24.	5.4	63
70	SEC mutants and the secretory apparatus. <i>Nature Medicine</i> , 2002, 8, 1055-1058.	30.7	60
71	Sec61p Serves Multiple Roles in Secretory Precursor Binding and Translocation into the Endoplasmic Reticulum Membrane. <i>Molecular Biology of the Cell</i> , 1998, 9, 3455-3473.	2.1	58
72	Selfâ€“assembly of minimal COPII cages. <i>EMBO Reports</i> , 2003, 4, 419-424.	4.5	55

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73	The Exomer Coat Complex Transports Fus1p to the Plasma Membrane via a Novel Plasma Membrane Sorting Signal in Yeast. <i>Molecular Biology of the Cell</i> , 2009, 20, 4985-4996.	2.1	55
74	23 Genes, 23 years later. <i>Cell</i> , 2004, 116, S13-S15.	28.9	51
75	TANGO1 and SEC12 are copackaged with procollagen I to facilitate the generation of large COPII carriers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12255-E12264.	7.1	51
76	Regulation of LC3 lipidation by the autophagy-specific class III phosphatidylinositol-3 kinase complex. <i>Molecular Biology of the Cell</i> , 2019, 30, 1098-1107.	2.1	49
77	Phosphoregulatory protein 14-3-3 facilitates SAC1 transport from the endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3199-206.	7.1	46
78	Extracellular Vesicles and Cancer: Caveat Lector. <i>Annual Review of Cancer Biology</i> , 2018, 2, 395-411.	4.5	46
79	The ER-Golgi intermediate compartment feeds the phagophore membrane. <i>Autophagy</i> , 2014, 10, 170-172.	9.1	44
80	SEC23-SEC31 the Interface Plays Critical Role for Export of Procollagen from the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2012, 287, 10134-10144.	3.4	41
81	ALG-2 Attenuates COPII Budding In Vitro and Stabilizes the Sec23/Sec31A Complex. <i>PLoS ONE</i> , 2013, 8, e75309.	2.5	41
82	Biogenesis of autophagosomal precursors for LC3 lipidation from the ER-Golgi intermediate compartment. <i>Autophagy</i> , 2015, 11, 2372-2374.	9.1	40
83	A mechanism for differential sorting of the planar cell polarity proteins Frizzled6 and Vangl2 at the trans-Golgi network. <i>Journal of Biological Chemistry</i> , 2018, 293, 8410-8427.	3.4	40
84	Charting the Secretory Pathway in a Simple Eukaryote. <i>Molecular Biology of the Cell</i> , 2010, 21, 3781-3784.	2.1	39
85	ER-Golgi Transport Defects Are Associated with Mutations in the Sed5p-binding Domain of the COPII Coat Subunit, Sec24p. <i>Molecular Biology of the Cell</i> , 2005, 16, 3719-3726.	2.1	37
86	Sorting Signals That Mediate Traffic of Chitin Synthase III between the TGN/Endosomes and to the Plasma Membrane in Yeast. <i>PLoS ONE</i> , 2012, 7, e46386.	2.5	34
87	The Use of Liposomes to Study COPII- and COPI-Coated Vesicle Formation and Membrane Protein Sorting. <i>Methods</i> , 2000, 20, 417-428.	3.8	31
88	Reforming research assessment. <i>ELife</i> , 2013, 2, e00855.	6.0	31
89	Neurodegeneration-associated mutant TREM2 proteins abortively cycle between the ER and ER-Golgi intermediate compartment. <i>Molecular Biology of the Cell</i> , 2017, 28, 2723-2733.	2.1	28
90	Ready aim fire!. <i>Nature</i> , 1998, 396, 514-515.	27.8	27

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91	Low-bias ncRNA libraries using ordered two-template relay: Serial template jumping by a modified retroelement reverse transcriptase. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
92	Discovery of the cellular and molecular basis of cholesterol control. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14833-14836.	7.1	25
93	New factors for protein transport identified by a genome-wide CRISPRi screen in mammalian cells. Journal of Cell Biology, 2019, 218, 3861-3879.	5.2	25
94	Cargo sorting into multivesicular bodies in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17395-17400.	7.1	23
95	The eLife approach to peer review. ELife, 2013, 2, e00799.	6.0	21
96	Fatty-acid binding protein 5 modulates the SAR1 GTPase cycle and enhances budding of large COPII cargoes. Molecular Biology of the Cell, 2019, 30, 387-399.	2.1	20
97	Extracellular vesicles from neurons promote neural induction of stem cells through cyclin D1. Journal of Cell Biology, 2021, 220, .	5.2	20
98	Small sequence variations between two mammalian paralogs of the small GTPase SAR1 underlie functional differences in coat protein complex II assembly. Journal of Biological Chemistry, 2020, 295, 8401-8412.	3.4	19
99	Merging cultures in the study of membrane traffic. Nature Cell Biology, 2004, 6, 483-486.	10.3	18
100	Site of catabolite inactivation. Nature, 1994, 369, 284-284.	27.8	17
101	Coordinating a new approach to basic research into Parkinson's disease. ELife, 2019, 8, .	6.0	15
102	Distinct stages in the recognition, sorting, and packaging of proTGF β into COPII-coated transport vesicles. Molecular Biology of the Cell, 2016, 27, 1938-1947.	2.1	10
103	Cell-free Generation of COPII-coated Procollagen I Carriers. Bio-protocol, 2017, 7, .	0.4	9
104	Launching eLife, Part 1. ELife, 2012, 1, e00270.	6.0	9
105	Open science takes on Parkinson's disease. ELife, 2021, 10, .	6.0	8
106	How sterols regulate protein sorting and traffic. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6496-6497.	7.1	7
107	A new twist on peer review. ELife, 2018, 7, .	6.0	6
108	How early-career researchers are shaping eLife. ELife, 2018, 7, .	6.0	5

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109	Assembly of Î³-secretase occurs through stable dimers after exit from the endoplasmic reticulum. Journal of Cell Biology, 2021, 220, .	5.2	5
110	A year in the life of eLife. ELife, 2013, 2, e01516.	6.0	5
111	Buoyant Density Fractionation of Small Extracellular Vesicle Sub-populations Derived from Mammalian Cells. Bio-protocol, 2020, 10, e3706.	0.4	5
112	Launching eLife, Part 2. ELife, 2012, 1, e00365.	6.0	4
113	Recognizing the importance of new tools and resources for research. ELife, 2015, 4, .	6.0	2
114	Room at the top. ELife, 2017, 6, .	6.0	2
115	eLife and early career researchers. ELife, 2013, 2, e01633.	6.0	2
116	Progress and promise. ELife, 2019, 8, .	6.0	2
117	The SEC23-SEC31 interface plays critical role for export of procollagen from the endoplasmic reticulum.. Journal of Biological Chemistry, 2012, 287, 32860.	3.4	1
118	Advancing research. ELife, 2014, 3, e03980.	6.0	1
119	Building a sustainable future for eLife. ELife, 2016, 5, .	6.0	1
120	APEX-mediated Proximity Labeling of Proteins in Cells Targeted by Extracellular Vesicles. Bio-protocol, 2021, 11, e4213.	0.4	1
121	Arthur Kornberg 1918â€“2007. Cell, 2007, 131, 637-639.	28.9	0
122	Change is good: life outside the nucleus. Nature Cell Biology, 2009, 11, 1274-1274.	10.3	0
123	P4â€³03: Biochemical Analysis of Trem2 Disease Mutations. Alzheimer's and Dementia, 2016, 12, P1149.	0.8	0
124	SEC24 isoform specificity regulates the assembly of Î³-secretase from dimeric subcomplexes. Alzheimer's and Dementia, 2020, 16, e042844.	0.8	0