Randy Schekman

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1732423/publications.pdf

Version: 2024-02-01

124 papers	24,552 citations	18482 62 h-index	18647 119 g-index
144 all docs	144 docs citations	144 times ranked	25386 citing authors

#	Article	IF	Citations
1	Open science takes on Parkinsonâ€™s disease. ELife, 2021, 10, .	6.0	8
2	Assembly of Î³-secretase occurs through stable dimers after exit from the endoplasmic reticulum. Journal of Cell Biology, 2021, 220, .	5.2	5
3	Extracellular vesicles from neurons promote neural induction of stem cells through cyclin D1. Journal of Cell Biology, 2021, 220, .	5.2	20
4	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
5	APEX-mediated Proximity Labeling of Proteins in Cells Targeted by Extracellular Vesicles. Bio-protocol, 2021, 11, e4213.	0.4	1
6	Selective sorting of microRNAs into exosomes by phase-separated YBX1 condensates. ELife, 2021, 10, .	6.0	70
7	SEC24 isoform specificity regulates the assembly of Î³â€secretase from dimeric subcomplexes. Alzheimer's and Dementia, 2020, 16, e042844.	0.8	0
8	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
9	Buoyant Density Fractionation of Small Extracellular Vesicle Sub-populations Derived from Mammalian Cells. Bio-protocol, 2020, 10, e3706.	0.4	5
10	Regulation of LC3 lipidation by the autophagy-specific class III phosphatidylinositol-3 kinase complex. Molecular Biology of the Cell, 2019, 30, 1098-1107.	2.1	49
11	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
12	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
13	Progress and promise. ELife, 2019, 8, .	6.0	2
14	Distinct mechanisms of microRNA sorting into cancer cell-derived extracellular vesicle subtypes. ELife, 2019, 8, .	6.0	164
15	Coordinating a new approach to basic research into Parkinsonâ€™s disease. ELife, 2019, 8, .	6.0	15
16	Transparency in authorsâ€™ 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
17	A mechanism for differential sorting of the planar cell polarity proteins Frizzled6 and Vangl2 at the trans-Golgi network. Journal of Biological Chemistry, 2018, 293, 8410-8427.	3.4	40
18	Extracellular Vesicles and Cancer: Caveat Lector. Annual Review of Cancer Biology, 2018, 2, 395-411.	4.5	46

#	Article	IF	Citations
19	TANGO1 and SEC12 are copackaged with procollagen I to facilitate the generation of large COPII carriers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12255-E12264.	7.1	51
20	How early-career researchers are shaping eLife. ELife, 2018, 7, .	6.0	5
21	A new twist on peer review. ELife, 2018, 7, .	6.0	6
22	Unconventional secretion of FABP4 by endosomes and secretory lysosomes. Journal of Cell Biology, 2018, 217, 649-665.	5.2	64
23	COPII-coated membranes function as transport carriers of intracellular procollagen I. Journal of Cell Biology, 2017, 216, 1745-1759.	5.2	93
24	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
25	TFG facilitates outer coat disassembly on COPII transport carriers to promote tethering and fusion with ERâ€“Golgi intermediate compartments. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7707-E7716.	7.1	65
26	Remodeling of <scp>ER</scp> â€exit sites initiates a membrane supply pathway for autophagosome biogenesis. EMBO Reports, 2017, 18, 1586-1603.	4.5	134
27	Neurodegeneration-associated mutant TREM2 proteins abortively cycle between the ER and ERâ€“Golgi intermediate compartment. Molecular Biology of the Cell, 2017, 28, 2723-2733.	2.1	28
28	Room at the top. ELife, 2017, 6, .	6.0	2
29	Cell-free Generation of COPII-coated Procollagen I Carriers. Bio-protocol, 2017, 7, .	0.4	9
30	Y-box protein 1 is required to sort microRNAs into exosomes in cells and in a cell-free reaction. ELife, 2016, 5, .	6.0	476
31	P4â€303: Biochemical Analysis of Trem2 Disease Mutations. Alzheimer's and Dementia, 2016, 12, P1149.	0.8	0
32	Distinct stages in the recognition, sorting, and packaging of proTGFÎ± into COPII-coated transport vesicles. Molecular Biology of the Cell, 2016, 27, 1938-1947.	2.1	10
33	Regulation of the CUL3âUbiquitin Ligase by a Calcium-Dependent Co-adaptor. Cell, 2016, 167, 525-538.e14.	28.9	110
34	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
35	Building a sustainable future for eLife. ELife, 2016, 5, .	6.0	1
36	Recognizing the importance of new tools and resources for research. ELife, 2015, 4, .	6.0	2

#	Article	IF	Citations
37	Unique COPII component AtSar1a/AtSec23a pair is required for the distinct function of protein ER export in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14360-14365.	7.1	65
38	Biogenesis of autophagosomal precursors for LC3 lipidation from the ER-Golgi intermediate compartment. Autophagy, 2015, 11, 2372-2374.	9.1	40
39	Phosphoregulatory protein 14-3-3 facilitates SAC1 transport from the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3199-206.	7.1	46
40	Avoidance of Autophagy Mediated by PlcA or ActA Is Required for Listeria monocytogenes Growth in Macrophages. Infection and Immunity, 2015, 83, 2175-2184.	2.2	82
41	Translocation of interleukin-1Î² into a vesicle intermediate in autophagy-mediated secretion. ELife, 2015, 4, .	6.0	288
42	Phosphatidylinositol 3-kinase and COPII generate LC3 lipidation vesicles from the ER-Golgi intermediate compartment. ELife, 2014, 3, e04135.	6.0	168
43	The ER-Golgi intermediate compartment feeds the phagophore membrane. Autophagy, 2014, 10, 170-172.	9.1	44
44	The protein-vesicle network of autophagy. Current Opinion in Cell Biology, 2014, 29, 18-24.	5.4	63
45	Protein Sorting at the trans-Golgi Network. Annual Review of Cell and Developmental Biology, 2014, 30, 169-206.	9.4	219
46	Advancing research. ELife, 2014, 3, e03980.	6.0	1
47	COPII â€" a flexible vesicle formation system. Current Opinion in Cell Biology, 2013, 25, 420-427.	5.4	136
48	Unconventional Secretion, Unconventional Solutions. Science, 2013, 340, 559-561.	12.6	160
49	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
50	ALG-2 Attenuates COPII Budding In Vitro and Stabilizes the Sec23/Sec31A Complex. PLoS ONE, 2013, 8, e75309.	2.5	41
51	The ERâ€"Golgi intermediate compartment is a key membrane source for the LC3 lipidation step of autophagosome biogenesis. ELife, 2013, 2, e00947.	6.0	348
52	The structure of the COPII transport-vesicle coat assembled on membranes. ELife, 2013, 2, e00951.	6.0	112
53	A novel GTP-binding proteinâ€"adaptor protein complex responsible for export of Vangl2 from the trans Golgi network. ELife, 2013, 2, e00160.	6.0	66
54	UNC93B1 mediates differential trafficking of endosomal TLRs. ELife, 2013, 2, e00291.	6.0	237

#	Article	IF	Citations
55	SEC24A deficiency lowers plasma cholesterol through reduced PCSK9 secretion. ELife, 2013, 2, e00444.	6.0	104
56	The eLife approach to peer review. ELife, 2013, 2, e00799.	6.0	21
57	Reforming research assessment. ELife, 2013, 2, e00855.	6.0	31
58	A year in the life of eLife. ELife, 2013, 2, e01516.	6.0	5
59	eLife and early career researchers. ELife, 2013, 2, e01633.	6.0	2
60	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
61	SEC23-SEC31 the Interface Plays Critical Role for Export of Procollagen from the Endoplasmic Reticulum. Journal of Biological Chemistry, 2012, 287, 10134-10144.	3.4	41
62	Ubiquitin-dependent regulation of COPII coat size and function. Nature, 2012, 482, 495-500.	27.8	292
63	COPII and the regulation of protein sorting in mammals. Nature Cell Biology, 2012, 14, 20-28.	10.3	331
64	Sec24p and Sec16p cooperate to regulate the GTP cycle of the COPII coat. EMBO Journal, 2012, 31, 1014-1027.	7.8	88
65	Sorting Signals That Mediate Traffic of Chitin Synthase III between the TGN/Endosomes and to the Plasma Membrane in Yeast. PLoS ONE, 2012, 7, e46386.	2.5	34
66	Launching eLife, Part 1. ELife, 2012, 1, e00270.	6.0	9
67	Launching eLife, Part 2. ELife, 2012, 1, e00365.	6.0	4
68	Multibudded tubules formed by COPII on artificial liposomes. Scientific Reports, 2011, 1, 17.	3.3	86
69	COPII-mediated vesicle formation at a glance. Journal of Cell Science, 2011, 124, 1-4.	2.0	200
70	Sec24b selectively sorts Vangl2 to regulate planar cell polarity during neural tube closure. Nature Cell Biology, 2010, 12, 41-46.	10.3	228
71	Charting the Secretory Pathway in a Simple Eukaryote. Molecular Biology of the Cell, 2010, 21, 3781-3784.	2.1	39
72	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

#	Article	IF	Citations
73	The Exomer Coat Complex Transports Fus1p to the Plasma Membrane via a Novel Plasma Membrane Sorting Signal in Yeast. Molecular Biology of the Cell, 2009, 20, 4985-4996.	2.1	55
74	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
75	Change is good: life outside the nucleus. Nature Cell Biology, 2009, 11, 1274-1274.	10.3	0
76	TANGO1 Facilitates Cargo Loading at Endoplasmic Reticulum Exit Sites. Cell, 2009, 136, 891-902.	28.9	320
77	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
78	Ent3p and Ent5p Exhibit Cargo-specific Functions in Trafficking Proteins between the Trans-Golgi Network and the Endosomes in Yeast. Molecular Biology of the Cell, 2007, 18, 1803-1815.	2.1	74
79	Arthur Kornberg 1918â€“2007. Cell, 2007, 131, 637-639.	28.9	0
80	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
81	The Genetic Basis of a Craniofacial Disease Provides Insight into COPII Coat Assembly. Developmental Cell, 2007, 13, 623-634.	7.0	166
82	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
83	Chs5/6 Complex: A Multiprotein Complex That Interacts with and Conveys Chitin Synthase III from theTrans-Golgi Network to the Cell Surface. Molecular Biology of the Cell, 2006, 17, 4157-4166.	2.1	68
84	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
85	COPII-coated vesicles: flexible enough for large cargo?. Current Opinion in Cell Biology, 2005, 17, 345-352.	5.4	101
86	ER-Golgi Transport Defects Are Associated with Mutations in the Sed5p-binding Domain of the COPII Coat Subunit, Sec24p. Molecular Biology of the Cell, 2005, 16, 3719-3726.	2.1	37
87	Uncoupled Packaging of Amyloid Precursor Protein and Presenilin 1 into Coat Protein Complex II Vesicles. Journal of Biological Chemistry, 2005, 280, 7758-7768.	3.4	89
88	Peroxisomes: Another Branch of the Secretory Pathway?. Cell, 2005, 122, 1-2.	28.9	66
89	Sar1p N-Terminal Helix Initiates Membrane Curvature and Completes the Fission of a COPII Vesicle. Cell, 2005, 122, 605-617.	28.9	455
90	Merging cultures in the study of membrane traffic. Nature Cell Biology, 2004, 6, 483-486.	10.3	18

#	Article	IF	Citations
91	GTP/GDP exchange by Sec12p enables COPII vesicle bud formation on synthetic liposomes. EMBO Journal, 2004, 23, 4286-4296.	7.8	299
92	BI-DIRECTIONAL PROTEIN TRANSPORT BETWEEN THE ER AND GOLGI. Annual Review of Cell and Developmental Biology, 2004, 20, 87-123.	9.4	815
93	23 Genes, 23 years later. Cell, 2004, 116, S13-S15.	28.9	51
94	Selfâ€assembly of minimal COPII cages. EMBO Reports, 2003, 4, 419-424.	4.5	55
95	Multiple Cargo Binding Sites on the COPII Subunit Sec24p Ensure Capture of Diverse Membrane Proteins into Transport Vesicles. Cell, 2003, 114, 497-509.	28.9	461
96	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
97	Concentrative sorting of secretory cargo proteins into COPII-coated vesicles. Journal of Cell Biology, 2002, 159, 915-921.	5.2	112
98	Sec16p potentiates the action of COPII proteins to bud transport vesicles. Journal of Cell Biology, 2002, 158, 1029-1038.	5.2	121
99	SEC mutants and the secretory apparatus. Nature Medicine, 2002, 8, 1055-1058.	30.7	60
100	Cargo selection into COPII vesicles is driven by the Sec24p subunit. EMBO Journal, 2002, 21, 6105-6113.	7.8	246
101	Dynamics of the COPII coat with GTP and stable analogues. Nature Cell Biology, 2001, 3, 531-537.	10.3	270
102	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. Molecular Biology of the Cell, 2001, 12, 1035-1045.	2.1	71
103	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
104	Sec24p and Iss1p Function Interchangeably in Transport Vesicle Formation from the Endoplasmic Reticulum inSaccharomyces cerevisiae. Molecular Biology of the Cell, 2000, 11, 983-998.	2.1	70
105	The Use of Liposomes to Study COPII- and COPI-Coated Vesicle Formation and Membrane Protein Sorting. Methods, 2000, 20, 417-428.	3.8	31
106	COPIIâ€“cargo interactions direct protein sorting into ER-derived transport vesicles. Nature, 1998, 391, 187-190.	27.8	374
107	Ready âƒ› aim âƒ› fire!. Nature, 1998, 396, 514-515.	27.8	27
108	COPII-Coated Vesicle Formation Reconstituted with Purified Coat Proteins and Chemically Defined Liposomes. Cell, 1998, 93, 263-275.	28.9	590

#	Article	IF	Citations
109	Nucleation of COPII Vesicular Coat Complex by Endoplasmic Reticulum to Golgi Vesicle SNAREs. , 1998, 281, 698-700.		184
110	Sec61p Serves Multiple Roles in Secretory Precursor Binding and Translocation into the Endoplasmic Reticulum Membrane. Molecular Biology of the Cell, 1998, 9, 3455-3473.	2.1	58
111	Chs6p-dependent Anterograde Transport of Chs3p from the Chitosome to the Plasma Membrane inSaccharomyces cerevisiae. Molecular Biology of the Cell, 1998, 9, 1565-1576.	2.1	127
112	COPI- and COPII-coated vesicles bud directly from the endoplasmic reticulum in yeast. Cell, 1995, 83, 1183-1196.	28.9	277
113	Site of catabolite inactivation. Nature, 1994, 369, 284-284.	27.8	17
114	SEC12 encodes a guanine-nucleotide-exchange factor essential for transport vesicle budding from the ER. Nature, 1993, 365, 347-349.	27.8	433
115	Vesicle-Mediated Protein Sorting. Annual Review of Biochemistry, 1992, 61, 471-516.	11.1	493
116	SEC21 is a gene required for ER to Golgi protein transport that encodes a subunit of a yeast coatomer. Nature, 1992, 360, 603-605.	27.8	196
117	Regulated import and degradation of a cytosolic protein in the yeast vacuole. Nature, 1991, 350, 313-318.	27.8	167
118	Distinct sets of SEC genes govern transport vesicle formation and fusion early in the secretory pathway. Cell, 1990, 61, 723-733.	28.9	726
119	A subfamily of stress proteins facilitates translocation of secretory and mitochondrial precursor polypeptides. Nature, 1988, 332, 800-805.	27.8	1,567
120	Reconstitution of SEC gene product-dependent intercompartmental protein transport. Cell, 1988, 54, 335-344.	28.9	336
121	Early stages in the yeast secretory pathway are required for transport of carboxypeptidase Y to the vacuole. Cell, 1982, 30, 439-448.	28.9	603
122	Order of events in the yeast secretory pathway. Cell, 1981, 25, 461-469.	28.9	816
123	Identification of 23 complementation groups required for post-translational events in the yeast secretory pathway. Cell, 1980, 21, 205-215.	28.9	1,754
124	Lyticase: Endoglucanase and Protease Activities That Act Together in Yeast Cell Lysis. Journal of Bacteriology, 1980, 142, 414-423.	2.2	295