# Tom A Rapoport

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21,963 78 148 141 h-index g-index citations papers 7.08 150 24,350 21.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
141	A linear steady-state treatment of enzymatic chains. General properties, control and effector strength. <i>FEBS Journal</i> , <b>1974</b> , 42, 89-95		1002
140	X-ray structure of a protein-conducting channel. <i>Nature</i> , <b>2004</b> , 427, 36-44	50.4	994
139	Sec61-mediated transfer of a membrane protein from the endoplasmic reticulum to the proteasome for destruction. <i>Nature</i> , <b>1996</b> , 384, 432-8	50.4	970
138	The AAA ATPase Cdc48/p97 and its partners transport proteins from the ER into the cytosol. <i>Nature</i> , <b>2001</b> , 414, 652-6	50.4	911
137	A class of membrane proteins shaping the tubular endoplasmic reticulum. <i>Cell</i> , <b>2006</b> , 124, 573-86	56.2	842
136	A membrane protein complex mediates retro-translocation from the ER lumen into the cytosol. <i>Nature</i> , <b>2004</b> , 429, 841-7	50.4	782
135	Protein translocation across the eukaryotic endoplasmic reticulum and bacterial plasma membranes. <i>Nature</i> , <b>2007</b> , 450, 663-9	50.4	711
134	Distinct ubiquitin-ligase complexes define convergent pathways for the degradation of ER proteins. <i>Cell</i> , <b>2006</b> , 126, 361-73	56.2	563
133	Cargo of kinesin identified as JIP scaffolding proteins and associated signaling molecules. <i>Journal of Cell Biology</i> , <b>2001</b> , 152, 959-70	7.3	515
132	Function of the p97-Ufd1-Npl4 complex in retrotranslocation from the ER to the cytosol: dual recognition of nonubiquitinated polypeptide segments and polyubiquitin chains. <i>Journal of Cell Biology</i> , <b>2003</b> , 162, 71-84	7.3	497
131	Protein transport across the eukaryotic endoplasmic reticulum and bacterial inner membranes. <i>Annual Review of Biochemistry</i> , <b>1996</b> , 65, 271-303	29.1	495
130	A class of dynamin-like GTPases involved in the generation of the tubular ER network. <i>Cell</i> , <b>2009</b> , 138, 549-61	56.2	401
129	Structure of a complex of the ATPase SecA and the protein-translocation channel. <i>Nature</i> , <b>2008</b> , 455, 936-43	50.4	352
128	Posttranslational protein transport in yeast reconstituted with a purified complex of Sec proteins and Kar2p. <i>Cell</i> , <b>1995</b> , 81, 561-70	56.2	345
127	BiP acts as a molecular ratchet during posttranslational transport of prepro-alpha factor across the ER membrane. <i>Cell</i> , <b>1999</b> , 97, 553-64	56.2	343
126	Mechanisms determining the morphology of the peripheral ER. Cell, 2010, 143, 774-88	56.2	342
125	Membrane proteins of the endoplasmic reticulum induce high-curvature tubules. <i>Science</i> , <b>2008</b> , 319, 1247-50	33.3	320

## (2000-2006)

124	Rough sheets and smooth tubules. <i>Cell</i> , <b>2006</b> , 126, 435-9	56.2	310
123	Mechanisms shaping the membranes of cellular organelles. <i>Annual Review of Cell and Developmental Biology</i> , <b>2009</b> , 25, 329-54	12.6	306
122	Protein translocation by the Sec61/SecY channel. <i>Annual Review of Cell and Developmental Biology</i> , <b>2005</b> , 21, 529-50	12.6	303
121	Oligomeric rings of the Sec61p complex induced by ligands required for protein translocation. <i>Cell</i> , <b>1996</b> , 87, 721-32	56.2	303
120	Signal sequence recognition in posttranslational protein transport across the yeast ER membrane. <i>Cell</i> , <b>1998</b> , 94, 795-807	56.2	285
119	Protein translocation: tunnel vision. <i>Cell</i> , <b>1998</b> , 92, 381-90	56.2	281
118	A protein of the endoplasmic reticulum involved early in polypeptide translocation. <i>Nature</i> , <b>1992</b> , 357, 47-52	50.4	281
117	Recruitment of the p97 ATPase and ubiquitin ligases to the site of retrotranslocation at the endoplasmic reticulum membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 14132-8	11.5	275
116	Mechanisms of Sec61/SecY-mediated protein translocation across membranes. <i>Annual Review of Biophysics</i> , <b>2012</b> , 41, 21-40	21.1	272
115	A novel pathway for secretory proteins?. <i>Trends in Biochemical Sciences</i> , <b>1990</b> , 15, 86-8	10.3	252
114	A posttargeting signal sequence recognition event in the endoplasmic reticulum membrane. <i>Cell</i> , <b>1995</b> , 82, 261-70	56.2	243
113	The reticulon and DP1/Yop1p proteins form immobile oligomers in the tubular endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 18892-904	5.4	241
112	Retrotranslocation of a misfolded luminal ER protein by the ubiquitin-ligase Hrd1p. Cell, 2010, 143, 579-	· <b>3</b> 6.2	234
111	Mutants affecting the structure of the cortical endoplasmic reticulum in Saccharomyces cerevisiae. Journal of Cell Biology, <b>2000</b> , 150, 461-74	7.3	234
110	Three-dimensional structure of the bacterial protein-translocation complex SecYEG. <i>Nature</i> , <b>2002</b> , 418, 662-5	50.4	223
109	The Sec61p complex mediates the integration of a membrane protein by allowing lipid partitioning of the transmembrane domain. <i>Cell</i> , <b>2000</b> , 102, 233-44	56.2	217
108	J proteins catalytically activate Hsp70 molecules to trap a wide range of peptide sequences. <i>Molecular Cell</i> , <b>1998</b> , 2, 593-603	17.6	215
107	The structure of ribosome-channel complexes engaged in protein translocation. <i>Molecular Cell</i> , <b>2000</b> , 6, 1219-32	17.6	192

106	Molecular mechanism of membrane protein integration into the endoplasmic reticulum. <i>Cell</i> , <b>1997</b> , 89, 523-33	56.2	179
105	Structures of the atlastin GTPase provide insight into homotypic fusion of endoplasmic reticulum membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 3976-81	11.5	170
104	A visual screen of a GFP-fusion library identifies a new type of nuclear envelope membrane protein. Journal of Cell Biology, <b>1999</b> , 146, 29-44	7.3	167
103	Structural analysis and optimization of the covalent association between SpyCatcher and a peptide Tag. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 309-17	6.5	166
102	Molecular Mechanism of Substrate Processing by the Cdc48 ATPase Complex. <i>Cell</i> , <b>2017</b> , 169, 722-735.e	<b>9</b> 6.2	159
101	In vitro formation of the endoplasmic reticulum occurs independently of microtubules by a controlled fusion reaction. <i>Journal of Cell Biology</i> , <b>2000</b> , 148, 883-98	7.3	158
100	Stacked endoplasmic reticulum sheets are connected by helicoidal membrane motifs. <i>Cell</i> , <b>2013</b> , 154, 285-96	56.2	157
99	Mechanistic insights into ER-associated protein degradation. <i>Current Opinion in Cell Biology</i> , <b>2018</b> , 53, 22-28	9	152
98	Structural and Mechanistic Insights into Protein Translocation. <i>Annual Review of Cell and Developmental Biology</i> , <b>2017</b> , 33, 369-390	12.6	144
97	Membrane-protein integration and the role of the translocation channel. <i>Trends in Cell Biology</i> , <b>2004</b> , 14, 568-75	18.3	142
96	The bacterial SecY/E translocation complex forms channel-like structures similar to those of the eukaryotic Sec61p complex. <i>Journal of Molecular Biology</i> , <b>1999</b> , 285, 1789-800	6.5	140
95	Gem1 and ERMES do not directly affect phosphatidylserine transport from ER to mitochondria or mitochondrial inheritance. <i>Traffic</i> , <b>2012</b> , 13, 880-90	5.7	137
94	Key steps in ERAD of luminal ER proteins reconstituted with purified components. Cell, 2014, 158, 1375-	- <b>488</b> 8	135
93	Dissociation of the dimeric SecA ATPase during protein translocation across the bacterial membrane. <i>EMBO Journal</i> , <b>2002</b> , 21, 4470-9	13	133
92	The pathway of US11-dependent degradation of MHC class I heavy chains involves a ubiquitin-conjugated intermediate. <i>Journal of Cell Biology</i> , <b>1999</b> , 147, 45-58	7.3	133
91	Protein translocation is mediated by oligomers of the SecY complex with one SecY copy forming the channel. <i>Cell</i> , <b>2007</b> , 129, 97-110	56.2	130
90	Disulfide bridge formation between SecY and a translocating polypeptide localizes the translocation pore to the center of SecY. <i>Journal of Cell Biology</i> , <b>2005</b> , 169, 219-25	7.3	130
89	Autoubiquitination of the Hrd1 Ligase Triggers Protein Retrotranslocation in ERAD. <i>Cell</i> , <b>2016</b> , 166, 394	- <del>4</del> 6.Z	128

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88	A large conformational change of the translocation ATPase SecA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 10937-42	11.5	128
87	Architecture of the ribosome-channel complex derived from native membranes. <i>Journal of Molecular Biology</i> , <b>2005</b> , 348, 445-57	6.5	120
86	Role of ubiquitination in retro-translocation of cholera toxin and escape of cytosolic degradation. <i>EMBO Reports</i> , <b>2002</b> , 3, 1222-7	6.5	120
85	Structure of the SecY channel during initiation of protein translocation. <i>Nature</i> , <b>2014</b> , 506, 102-6	50.4	119
84	Cryo-EM structure of the protein-conducting ERAD channel Hrd1 in complex with Hrd3. <i>Nature</i> , <b>2017</b> , 548, 352-355	50.4	117
83	Weaving the web of ER tubules. <i>Cell</i> , <b>2011</b> , 147, 1226-31	56.2	111
82	Substrate processing by the Cdc48 ATPase complex is initiated by ubiquitin unfolding. <i>Science</i> , <b>2019</b> , 365,	33.3	110
81	A role for the two-helix finger of the SecA ATPase in protein translocation. <i>Nature</i> , <b>2008</b> , 455, 984-7	50.4	110
80	Crystal structure of a substrate-engaged SecY protein-translocation channel. <i>Nature</i> , <b>2016</b> , 531, 395-39	<b>99</b> 50.4	107
79	RecA-like motor ATPaseslessons from structures. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2004</b> , 1659, 1-18	4.6	107
78	The plug domain of the SecY protein stabilizes the closed state of the translocation channel and maintains a membrane seal. <i>Molecular Cell</i> , <b>2007</b> , 26, 511-21	17.6	99
77	The endoplasmic reticulum membrane is permeable to small molecules. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 447-55	3.5	94
76	Structure of the mammalian ribosome-channel complex at 17A resolution. <i>Journal of Molecular Biology</i> , <b>2002</b> , 324, 871-86	6.5	93
75	The signal sequence coding region promotes nuclear export of mRNA. <i>PLoS Biology</i> , <b>2007</b> , 5, e322	9.7	88
74	The dynamin-like GTPase Sey1p mediates homotypic ER fusion in S. cerevisiae. <i>Journal of Cell Biology</i> , <b>2012</b> , 197, 209-17	7.3	87
73	Ribosome binding of a single copy of the SecY complex: implications for protein translocation. <i>Molecular Cell</i> , <b>2007</b> , 28, 1083-92	17.6	87
72	Cooperation of the ER-shaping proteins atlastin, lunapark, and reticulons to generate a tubular membrane network. <i>ELife</i> , <b>2016</b> , 5,	8.9	87
71	A model for the generation and interconversion of ER morphologies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E5243-51	11.5	86

70	Lipid interaction of the C terminus and association of the transmembrane segments facilitate atlastin-mediated homotypic endoplasmic reticulum fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, E2146-54	11.5	85
69	Determining the conductance of the SecY protein translocation channel for small molecules. <i>Molecular Cell</i> , <b>2007</b> , 26, 501-9	17.6	85
68	The bacterial ATPase SecA functions as a monomer in protein translocation. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 9097-105	5.4	85
67	Polyubiquitin serves as a recognition signal, rather than a ratcheting molecule, during retrotranslocation of proteins across the endoplasmic reticulum membrane. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 34774-82	5.4	84
66	Cooperation of transmembrane segments during the integration of a double-spanning protein into the ER membrane. <i>EMBO Journal</i> , <b>2003</b> , 22, 3654-63	13	83
65	Single copies of Sec61 and TRAP associate with a nontranslating mammalian ribosome. <i>Structure</i> , <b>2008</b> , 16, 1126-37	5.2	80
64	A "push and slide" mechanism allows sequence-insensitive translocation of secretory proteins by the SecA ATPase. <i>Cell</i> , <b>2014</b> , 157, 1416-1429	56.2	79
63	Preserving the membrane barrier for small molecules during bacterial protein translocation. <i>Nature</i> , <b>2011</b> , 473, 239-42	50.4	78
62	Spontaneous release of cytosolic proteins from posttranslational substrates before their transport into the endoplasmic reticulum. <i>Journal of Cell Biology</i> , <b>2000</b> , 151, 167-78	7.3	75
61	Protein transport by purified yeast Sec complex and Kar2p without membranes. <i>Science</i> , <b>1997</b> , 277, 938	3- <del>4</del> 3.3	73
60	An ER protein functionally couples neutral lipid metabolism on lipid droplets to membrane lipid synthesis in the ER. <i>Cell Reports</i> , <b>2014</b> , 6, 44-55	10.6	71
59	A novel dimer interface and conformational changes revealed by an X-ray structure of B. subtilis SecA. <i>Journal of Molecular Biology</i> , <b>2006</b> , 364, 259-65	6.5	69
58	Toward an understanding of the Cdc48/p97 ATPase. F1000Research, 2017, 6, 1318	3.6	68
57	Structure of the post-translational protein translocation machinery of the ER membrane. <i>Nature</i> , <b>2019</b> , 566, 136-139	50.4	67
56	Multiple mechanisms determine ER network morphology during the cell cycle in Xenopus egg extracts. <i>Journal of Cell Biology</i> , <b>2013</b> , 203, 801-14	7.3	62
55	Reconstitution of the tubular endoplasmic reticulum network with purified components. <i>Nature</i> , <b>2017</b> , 543, 257-260	50.4	61
54	Structural basis of ER-associated protein degradation mediated by the Hrd1 ubiquitin ligase complex. <i>Science</i> , <b>2020</b> , 368,	33.3	60
53	Signal sequence recognition in cotranslational translocation by protein components of the endoplasmic reticulum membrane. <i>Journal of Cell Biology</i> , <b>1998</b> , 142, 355-64	7.3	59

52	Binding of signal recognition particle gives ribosome/nascent chain complexes a competitive advantage in endoplasmic reticulum membrane interaction. <i>Molecular Biology of the Cell</i> , <b>1998</b> , 9, 103-1	1 <i>3</i> <sup>.5</sup>	56
51	Conformational flexibility and peptide interaction of the translocation ATPase SecA. <i>Journal of Molecular Biology</i> , <b>2009</b> , 394, 606-12	6.5	51
50	Structure of the Cdc48 ATPase with its ubiquitin-binding cofactor Ufd1-Npl4. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 616-622	17.6	51
49	Unique double-ring structure of the peroxisomal Pex1/Pex6 ATPase complex revealed by cryo-electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E4017-25	11.5	50
48	Structural insight into the protein translocation channel. <i>Current Opinion in Structural Biology</i> , <b>2004</b> , 14, 390-6	8.1	49
47	Cis and trans interactions between atlastin molecules during membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1851-60	11.5	48
46	Fusion of the endoplasmic reticulum by membrane-bound GTPases. <i>Seminars in Cell and Developmental Biology</i> , <b>2016</b> , 60, 105-111	7.5	48
45	Ratcheting in post-translational protein translocation: a mathematical model. <i>Journal of Molecular Biology</i> , <b>2001</b> , 305, 643-56	6.5	48
44	Mapping polypeptide interactions of the SecA ATPase during translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 20800-5	11.5	47
43	Interactions between Sec complex and prepro-alpha-factor during posttranslational protein transport into the endoplasmic reticulum. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 1-10	3.5	45
42	tRNA-mediated labelling of proteins with biotin. A nonradioactive method for the detection of cell-free translation products. <i>FEBS Journal</i> , <b>1988</b> , 172, 663-8		43
41	Decatransin, a new natural product inhibiting protein translocation at the Sec61/SecYEG translocon. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 1217-29	5.3	37
40	Two alternative binding mechanisms connect the protein translocation Sec71-Sec72 complex with heat shock proteins. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 8007-8018	5.4	33
39	Ribosome binding to and dissociation from translocation sites of the endoplasmic reticulum membrane. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 3860-9	3.5	32
38	Mechanism of a cytosolic O-glycosyltransferase essential for the synthesis of a bacterial adhesion protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E11	9 <del>0</del> -9 <sup>5</sup>	31
37	The ER-associated degradation component Der1p and its homolog Dfm1p are contained in complexes with distinct cofactors of the ATPase Cdc48p. <i>FEBS Letters</i> , <b>2008</b> , 582, 1575-80	3.8	31
36	Analysis of polypeptide movement in the SecY channel during SecA-mediated protein translocation. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 15709-15	5.4	29
35	Protein translocation by the SecA ATPase occurs by a power-stroke mechanism. <i>EMBO Journal</i> , <b>2019</b> , 38,	13	28

34	Structure of the substrate-engaged SecA-SecY protein translocation machine. <i>Nature Communications</i> , <b>2019</b> , 10, 2872	17.4	26
33	Reconstituting the reticular ER network - mechanistic implications and open questions. <i>Journal of Cell Science</i> , <b>2019</b> , 132,	5.3	25
32	Protein transport across the endoplasmic reticulum membrane. FEBS Journal, 2008, 275, 4471-8	5.7	25
31	Ddi1 is a ubiquitin-dependent protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 7776-7781	11.5	24
30	Recognition of an ERAD-L substrate analyzed by site-specific in vivo photocrosslinking. <i>FEBS Letters</i> , <b>2011</b> , 585, 1281-6	3.8	22
29	Cross-linked SecA dimers are not functional in protein translocation. FEBS Letters, 2007, 581, 2616-20	3.8	22
28	Conformational Changes of the Clamp of the Protein Translocation ATPase SecA. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 2348-59	6.5	20
27	Cycles of autoubiquitination and deubiquitination regulate the ERAD ubiquitin ligase Hrd1. <i>ELife</i> , <b>2019</b> , 8,	8.9	19
26	Structures of the double-ring AAA ATPase Pex1-Pex6 involved in peroxisome biogenesis. <i>FEBS Journal</i> , <b>2016</b> , 283, 986-92	5.7	14
25	Translocation of Proteins through a Distorted Lipid Bilayer. <i>Trends in Cell Biology</i> , <b>2021</b> , 31, 473-484	18.3	14
24	Unraveling the sequence of cytosolic reactions in the export of GspB adhesin from. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 5360-5373	5.4	12
23	The ER morphology-regulating lunapark protein induces the formation of stacked bilayer discs. <i>Life Science Alliance</i> , <b>2018</b> , 1, e201700014	5.8	10
22	Mechanism of membrane-curvature generation by ER-tubule shaping proteins. <i>Nature Communications</i> , <b>2021</b> , 12, 568	17.4	10
21	Involvement of VAT-1 in Phosphatidylserine Transfer from the Endoplasmic Reticulum to Mitochondria. <i>Traffic</i> , <b>2015</b> , 16, 1306-17	5.7	8
20	Tracking the road from inflammation to cancer: the critical role of IkappaB kinase (IKK). <i>Harvey Lectures</i> , <b>2006</b> , 102, 133-51		8
19	Cilia and Hedgehog signaling in the mouse embryo. <i>Harvey Lectures</i> , <b>2006</b> , 102, 103-15		8
18	Mechanism of Lamellar Body Formation by Lung Surfactant Protein B. <i>Molecular Cell</i> , <b>2021</b> , 81, 49-66.e	8 17.6	6
17	Translocation of polyubiquitinated protein substrates by the hexameric Cdc48 ATPase <i>Molecular Cell</i> , <b>2021</b> ,	17.6	5

#### LIST OF PUBLICATIONS

16	Cryo-EM structure determination of small proteins by nanobody-binding scaffolds (Legobodies). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
15	Protease protection assays show polypeptide movement into the SecY channel by power strokes of the SecA ATPase. <i>EMBO Reports</i> , <b>2020</b> , 21, e50905	6.5	4
14	Peroxisome protein import recapitulated in egg extracts. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 2021-2034	7.3	3
13	Endoplasmic Reticulum Network Formation with Egg Extracts. <i>Cold Spring Harbor Protocols</i> , <b>2019</b> , 2019,	1.2	3
12	Drugging the Undruggable 11-15		2
11	Signaling networks that control synapse development and cognitive function. <i>Harvey Lectures</i> , <b>2006</b> , 102, 73-102		1
10	Basal bodies: their roles in generating asymmetry. <i>Harvey Lectures</i> , <b>2006</b> , 102, 17-50		1
9	A preliminary report on my life in science. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 3770-2	3.5	
8	Ran is associated with chromosomes during starfish oocyte meiosis and embryonic mitoses. <i>Zygote</i> , <b>1999</b> , 8, S91-S91	1.6	
7	Investigation of SecY protein-translocation channel in action using a novel in vivo tool (LB198). <i>FASEB Journal</i> , <b>2014</b> , 28, LB198	0.9	
6	Investigation of SecY protein-translocation channel in action using a novel in vivo tool (362.3). <i>FASEB Journal</i> , <b>2014</b> , 28, 362.3	0.9	
5	Protein transport in and out of the endoplasmic reticulum. <i>Harvey Lectures</i> , <b>2006</b> , 102, 51-72		
4	Active Members179-189		
3	Former Officers of the Harvey Society153-168		
2	Investigating the import of folded proteins into peroxisomes. FASEB Journal, 2013, 27, lb127	0.9	
1	The role of the C-terminus and transmembrane segments in facilitating atlastin-mediated endoplasmic reticulum fusion. <i>FASEB Journal</i> , <b>2013</b> , 27, 1016.1	0.9	