

# Toshiya Endo

## List of Publications by Year in descending order

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87  
papers

6,328  
citations

71102

41  
h-index

71685

76  
g-index

88  
all docs

88  
docs citations

88  
times ranked

7694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ubiquitin is phosphorylated by PINK1 to activate parkin. <i>Nature</i> , 2014, 510, 162-166.	27.8	1,185
2	Structural Basis of Presequence Recognition by the Mitochondrial Protein Import Receptor Tom20. <i>Cell</i> , 2000, 100, 551-560.	28.9	493
3	Tim50 Is a Subunit of the TIM23 Complex that Links Protein Translocation across the Outer and Inner Mitochondrial Membranes. <i>Cell</i> , 2002, 111, 519-528.	28.9	233
4	Identification of Tim40 That Mediates Protein Sorting to the Mitochondrial Intermembrane Space. <i>Journal of Biological Chemistry</i> , 2004, 279, 47815-47821.	3.4	188
5	Molecular architecture of the active mitochondrial protein gate. <i>Science</i> , 2015, 349, 1544-1548.	12.6	169
6	Multiple pathways for mitochondrial protein traffic. <i>Biological Chemistry</i> , 2009, 390, 723-730.	2.5	163
7	Functional cooperation and separation of translocators in protein import into mitochondria, the double-membrane bounded organelles. <i>Journal of Cell Science</i> , 2003, 116, 3259-3267.	2.0	162
8	Ups1p and Ups2p antagonistically regulate cardiolipin metabolism in mitochondria. <i>Journal of Cell Biology</i> , 2009, 185, 1029-1045.	5.2	149
9	Structure of the mitochondrial import gate reveals distinct preprotein paths. <i>Nature</i> , 2019, 575, 395-401.	27.8	146
10	Two novel proteins in the mitochondrial outer membrane mediate $\beta$ -barrel protein assembly. <i>Journal of Cell Biology</i> , 2004, 166, 621-627.	5.2	143
11	Tam41 Is a CDP-Diacylglycerol Synthase Required for Cardiolipin Biosynthesis in Mitochondria. <i>Cell Metabolism</i> , 2013, 17, 709-718.	16.2	135
12	Tim23 and Tim50 pair coordinates functions of translocators and motor proteins in mitochondrial protein import. <i>Journal of Cell Biology</i> , 2009, 184, 129-141.	5.2	125
13	Tom20 and Tom22 Share the Common Signal Recognition Pathway in Mitochondrial Protein Import. <i>Journal of Biological Chemistry</i> , 2008, 283, 3799-3807.	3.4	123
14	Structural insight into the mitochondrial protein import system. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 955-970.	2.6	120
15	Functions of outer membrane receptors in mitochondrial protein import. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2002, 1592, 3-14.	4.1	117
16	Structure and function insights into direct lipid transfer between membranes by Mmm1 and Mdm12 of ERMES. <i>Journal of Cell Biology</i> , 2018, 217, 959-974.	5.2	116
17	In vivo protein-interaction mapping of a mitochondrial translocator protein Tom22 at work. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15179-15183.	7.1	107
18	Transport of proteins across or into the mitochondrial outer membrane. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2010, 1803, 706-714.	4.1	101

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19	BiP-mediated polar nuclei fusion is essential for the regulation of endosperm nuclei proliferation in <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1684-1689.	7.1	101
20	Identification of Tam41 maintaining integrity of the TIM23 protein translocator complex in mitochondria. Journal of Cell Biology, 2006, 174, 631-637.	5.2	90
21	Tom7 Regulates Mdm10-mediated Assembly of the Mitochondrial Import Channel Protein Tom40. Journal of Biological Chemistry, 2010, 285, 41222-41231.	3.4	86
22	Mdm10 as a dynamic constituent of the TOB/SAM complex directs coordinated assembly of Tom40. EMBO Reports, 2010, 11, 187-193.	4.5	86
23	A phospholipid transfer function of ER-mitochondria encounter structure revealed in vitro. Scientific Reports, 2016, 6, 30777.	3.3	85
24	Visualizing multiple inter-organelle contact sites using the organelle-targeted split-GFP system. Scientific Reports, 2018, 8, 6175.	3.3	85
25	Msp1 Clears Mistargeted Proteins by Facilitating Their Transfer from Mitochondria to the ER. Molecular Cell, 2019, 76, 191-205.e10.	9.7	81
26	Characterization of the targeting signal in mitochondrial $\hat{I}^2$ -barrel proteins. Nature Communications, 2016, 7, 12036.	12.8	80
27	Structural and mechanistic insights into phospholipid transfer by Ups1 $\hat{I}^2$ -Mdm35 in mitochondria. Nature Communications, 2015, 6, 7922.	12.8	75
28	<i>Arabidopsis thaliana</i> Has a Set of J Proteins in the Endoplasmic Reticulum that are Conserved from Yeast to Animals and Plants. Plant and Cell Physiology, 2008, 49, 1547-1562.	3.1	73
29	Cytosolic Hsp70 and Hsp40 chaperones enable the biogenesis of mitochondrial $\hat{I}^2$ -barrel proteins. Journal of Cell Biology, 2018, 217, 3091-3108.	5.2	72
30	Phosphatidylserine transport by Ups2 $\hat{I}^2$ -Mdm35 in respiration-active mitochondria. Journal of Cell Biology, 2016, 214, 77-88.	5.2	67
31	Phospholipid Transport via Mitochondria. Traffic, 2014, 15, 933-945.	2.7	62
32	Comparison of the protein-unfolding pathways between mitochondrial protein import and atomic-force microscopy measurements. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17999-18004.	7.1	60
33	Mitochondrial sorting and assembly machinery operates by $\hat{I}^2$ -barrel switching. Nature, 2021, 590, 163-169.	27.8	60
34	Organelle membrane-specific chemical labeling and dynamic imaging in living cells. Nature Chemical Biology, 2020, 16, 1361-1367.	8.0	59
35	Multiple BiP Genes of <i>Arabidopsis thaliana</i> are Required for Male Gametogenesis and Pollen Competitiveness. Plant and Cell Physiology, 2014, 55, 801-810.	3.1	58
36	Mitochondrial Protein Import. Journal of Biological Chemistry, 2004, 279, 45701-45707.	3.4	54

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37	Roles of Dom34:Hbs1 in Nonstop Protein Clearance from Translocators for Normal Organelle Protein Influx. <i>Cell Reports</i> , 2012, 2, 447-453.	6.4	54
38	Identification of yeastMAS17encoding the functional counterpart of the mitochondrial receptor complex protein MOM22 of <i>Neurospora crassa</i> . <i>FEBS Letters</i> , 1995, 357, 202-206.	2.8	51
39	Maintenance of Cardiolipin and Crista Structure Requires Cooperative Functions of Mitochondrial Dynamics and Phospholipid Transport. <i>Cell Reports</i> , 2019, 26, 518-528.e6.	6.4	48
40	Porin Associates with Tom22 to Regulate the Mitochondrial Protein Gate Assembly. <i>Molecular Cell</i> , 2019, 73, 1044-1055.e8.	9.7	47
41	Lipid homeostasis in mitochondria. <i>Biological Chemistry</i> , 2020, 401, 821-833.	2.5	46
42	Structural Basis for the Disulfide Relay System in the Mitochondrial Intermembrane Space. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 1359-1373.	5.4	45
43	Binding of Mitochondrial Presequences to Yeast Cytosolic Heat Shock Protein 70 Depends on the Amphiphilicity of the Presequence. <i>Journal of Biological Chemistry</i> , 1996, 271, 4161-4167.	3.4	44
44	A novel import route for an N-anchor mitochondrial outer membrane protein aided by the TIM23 complex. <i>EMBO Reports</i> , 2014, 15, 670-7.	4.5	44
45	Organelle contact zones as sites for lipid transfer. <i>Journal of Biochemistry</i> , 2019, 165, 115-123.	1.7	44
46	Isolation and characterization of the cDNA for pea chloroplast SecA Evolutionary conservation of the bacterial-type SecA-dependent protein transport within chloroplasts. <i>FEBS Letters</i> , 1995, 364, 305-308.	2.8	41
47	Step-size Analyses of the Mitochondrial Hsp70 Import Motor Reveal the Brownian Ratchet in Operation. <i>Journal of Biological Chemistry</i> , 2008, 283, 27325-27332.	3.4	34
48	The chloroplast-targeting domain of plastocyanin transit peptide can form a helical structure but does not have a high affinity for lipid bilayers. <i>FEBS Journal</i> , 1992, 207, 671-675.	0.2	33
49	Chloroplast Protein Import. Chloroplast Envelopes and Thylakoids have Different Abilities to Unfold Proteins. <i>FEBS Journal</i> , 1994, 225, 403-409.	0.2	31
50	Role of the TOM Complex in Protein Import into Mitochondria: Structural Views. <i>Annual Review of Biochemistry</i> , 2022, 91, 679-703.	11.1	31
51	Quality control of nonstop membrane proteins at the ER membrane and in the cytosol. <i>Scientific Reports</i> , 2016, 6, 30795.	3.3	30
52	The mitochondrial inner membrane protein LETM1 modulates cristae organization through its LETM domain. <i>Communications Biology</i> , 2020, 3, 99.	4.4	28
53	Role of the membrane potential in mitochondrial protein unfolding and import. <i>Scientific Reports</i> , 2019, 9, 7637.	3.3	23
54	CdsA is involved in biosynthesis of glycolipid MPlase essential for membrane protein integration in vivo. <i>Scientific Reports</i> , 2019, 9, 1372.	3.3	23

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55	Different Sets of ER-Resident J-Proteins Regulate Distinct Polar Nuclear-Membrane Fusion Events in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2014, 55, 1937-1944.	3.1	22
56	Role of Intra- and Inter-mitochondrial Membrane Contact Sites in Yeast Phospholipid Biogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2017, 997, 121-133.	1.6	22
57	NMR analyses on the interactions of the yeast Tim50 C-terminal region with the presequence and Tim50 core domain. <i>FEBS Letters</i> , 2014, 588, 678-684.	2.8	20
58	Inactivation of cardiolipin synthase triggers changes in mitochondrial morphology. <i>FEBS Letters</i> , 2018, 592, 209-218.	2.8	20
59	Cytosolic Hsp70 and co-chaperones constitute a novel system for tRNA import into the nucleus. <i>ELife</i> , 2015, 4, .	6.0	20
60	Reinvestigation of the Requirement of Cytosolic ATP for Mitochondrial Protein Import. <i>Journal of Biological Chemistry</i> , 2004, 279, 19464-19470.	3.4	19
61	ERdj3B-Mediated Quality Control Maintains Anther Development at High Temperatures. <i>Plant Physiology</i> , 2020, 182, 1979-1990.	4.8	19
62	Mitochondrial presequences can induce aggregation of unfolded proteins. <i>FEBS Letters</i> , 1995, 359, 93-96.	2.8	17
63	Fertilization-Coupled Sperm Nuclear Fusion Is Required for Normal Endosperm Nuclear Proliferation. <i>Plant and Cell Physiology</i> , 2020, 61, 29-40.	3.1	17
64	Multifaceted roles of porin in mitochondrial protein and lipid transport. <i>Biochemical Society Transactions</i> , 2019, 47, 1269-1277.	3.4	15
65	Co-operative binding of hsp60 may promote transfer hsp70 and correct folding of imported proteins in mitochondria. <i>FEBS Letters</i> , 1991, 293, 1-3.	2.8	14
66	Myristoyl group-aided protein import into the mitochondrial intermembrane space. <i>Scientific Reports</i> , 2019, 9, 1185.	3.3	14
67	Structural snapshot of the mitochondrial protein import gate. <i>FEBS Journal</i> , 2021, 288, 5300-5310.	4.7	14
68	BamE structure: the assembly of $\beta$ -barrel proteins in the outer membranes of bacteria and mitochondria. <i>EMBO Reports</i> , 2011, 12, 94-95.	4.5	13
69	Analyses of Protein-Protein Interactions by In Vivo Photocrosslinking in Budding Yeast. <i>Methods in Molecular Biology</i> , 2013, 1033, 207-217.	0.9	13
70	Identification of multi-copy suppressors for endoplasmic reticulum-mitochondria tethering proteins in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2016, 590, 3061-3070.	2.8	11
71	Identification and characterization of a Jem1p ortholog of <i>Candida albicans</i> : dissection of Jem1p functions in karyogamy and protein quality control in <i>Saccharomyces cerevisiae</i> . <i>Genes To Cells</i> , 2008, 13, 1015-1026.	1.2	9
72	GET pathway mediates transfer of mislocalized tail-anchored proteins from mitochondria to the ER. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	9

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73	Structural basis for interorganelle phospholipid transport mediated by VAT-1. <i>Journal of Biological Chemistry</i> , 2020, 295, 3257-3268.	3.4	8
74	Mitochondrial Matrix Reloaded with RNA. <i>Cell</i> , 2010, 142, 362-363.	28.9	5
75	Phosphatidylserine flux into mitochondria unveiled by organelle-targeted <i>Escherichia coli</i> phosphatidylserine synthase PssA. <i>FEBS Journal</i> , 2021, 288, 3285-3299.	4.7	5
76	Advanced In Vitro Assay System to Measure Phosphatidylserine and Phosphatidylethanolamine Transport at ER/Mitochondria Interface. <i>Methods in Molecular Biology</i> , 2019, 1949, 57-67.	0.9	4
77	Structural overview of the translocase of the mitochondrial outer membrane complex. <i>Biophysics and Physicobiology</i> , 2022, 19, n/a.	1.0	4
78	Shuttle mission in the mitochondrial intermembrane space. <i>EMBO Journal</i> , 2018, 37, .	7.8	2
79	Phospholipid transfer by ERMES components. <i>Aging</i> , 2018, 10, 528-529.	3.1	2
80	Regulation of the protein entry gate assembly by mitochondrial porin. <i>Current Genetics</i> , 2019, 65, 1161-1163.	1.7	1
81	Crystal structure of Tam41 cytidine diphosphate diacylglycerol synthase from a Firmicutes bacterium. <i>Journal of Biochemistry</i> , 2022, 171, 429-441.	1.7	1
82	Mechanisms of Mitochondrial Protein Translocation across Membranes.. <i>Seibutsu Butsuri</i> , 1991, 31, 127-132.	0.1	0
83	2SA2-01 Mitochondrial translocators that mediate sorting of 1000 different mitochondrial proteins(2SA2 Research frontiers of protein transport across the membrane,The 47th Annual Meeting) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	0.1	0
84	2P-133 Step-size analyses of the mitochondrial Hsp70 import motor reveal the Brownian ratchet in operation(Molecular motor,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009, 49, S127.	0.1	0
85	3P-030 Structural analysis of mitochondrial thiol oxidase Tim40(Protein:Structure & Function,The) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	0.1	0
86	Mitochondrial translocator complexes analyzed by Blue-Native PAGE. <i>Denki Eido</i> , 2017, 61, 100-102.	0.0	0
87	Membrane Protein Insertion Mechanism by Mitochondrial Sorting and Assembly Machinery Complex. <i>Seibutsu Butsuri</i> , 2021, 61, 392-394.	0.1	0